

MACROECONOMÍA ●

PRODUCCIÓN MIN-MET ●

COMERCIO EXTERIOR ●

INVERSIÓN ●

EMPLEO SALARIOS ●

COTIZACIONES ●

INVERSIÓN Y PROYECTOS ●





### MACROECONOMIA



INDICADORES MACROECONÓMICOS DE LA ECONOMÍA MEXICANA

PRODUCTO INTERNO BRUTO MINERO TRIMESTRAL

INDICE DE VOLUMEN FÍSICO DE LA MINERÍA EXTRACTIVA (NO PETROLERA)

INDICE DE VOLUMEN FÍSICO DE LA PRODUCCIÓN MINERO METALÚRGICA

PRODUCCIÓN NACIONAL MINERO METALÚRGICA

### PRODUCCION MIN-MET



PARTICIPACIÓN DE LOS PRODUCTOS EN EL VALOR TOTAL DE LA PRODUCCIÓN NACIONAL MINERO-METALÚRGICA

PARTICIPACIÓN DE LOS ESTADOS EN LA PRODUCCIÓN MINERA NACIONAL

PARTICIPACIÓN DE MÉXICO EN LA PRODUCCIÓN MINERA MUNDIAL

### COMERCIO EXTERIOR



EXPORTACIONES MINERO-METALÚRGICAS

IMPORTACIONES MINERO-METALÚRGICAS

BALANZA COMERCIAL POR GRUPO MINERAL

### INVERSION



INVERSIONES EN EL SECTOR MINERO MEXICANO

IMPORTACIONES DE BIENES INTERMEDIOS Y DE CAPITAL PARA LA INDUSTRIA MINERO-METALÚRGICA

### EMPLEO Y SALARIOS



EMPLEO EN LA INDUSTRIA MINERO METALÚRGICA

SALARIO EN LA INDUSTRIA MINERO METALÚRGICA

ENTIDAD FEDERATIVA

### COTIZACIONES



COTIZACIONES Oro

PLATA

COBRE

ZINC

PLOMO

### PROYECTOS



PRINCIPALES PROYECTOS MINEROS EN MÉXICO

## Indicadores Macroeconómicos de la Economía Mexicana

| Año                 | PIB <sup>1/</sup> | %    | PIB <sup>2/</sup> | PIB <sup>3/</sup> | Export. <sup>2/</sup> | %      | Import. <sup>2/</sup> | %     |
|---------------------|-------------------|------|-------------------|-------------------|-----------------------|--------|-----------------------|-------|
| <b>Construcción</b> |                   |      |                   |                   |                       |        |                       |       |
| 2005                | 8,114             | 3.2  | 852               | 3.9               | 214                   | 13.7   | 221                   | 12.4  |
| 2006                | 8,532             | 5.2  | 950               | 7.8               | 250                   | 16.8   | 256                   | 15.5  |
| 2007                | 8,810             | 3.3  | 1,036             | 4.4               | 272                   | 8.9    | 283                   | 10.6  |
| 2008                | 8,915             | 1.2  | 1,085             | 3.1               | 292                   | 7.3    | 309                   | 9.5   |
| 2009                | 8,369             | -6.1 | 876               | -7.3              | 230                   | - 21.2 | 234                   | -24.0 |
| 2010                | 8,820             | 5.4  | 1,033             | 0.0               | 298                   | 29.8   | 301                   | 28.6  |
| 2011 <sup>4/</sup>  | 8,924             | 3.3  | 1,167             | 4.1               | 231                   | 20.4   | 229                   | 18.8  |

1/ Miles de millones de pesos de 2003.

2/ Miles de millones de dólares (PIB a precios corrientes), al segundo trimestre de 2011.

3/ Variación porcentual del PIB de la industria de la construcción con respecto al año anterior a pesos de 2003.

4/ PIB real, cifras al segundo trimestre de 2011. Comercio Exterior a agosto de 2011.

Fuente: INEGI, octubre de 2011.

## Indicadores Macroeconómicos de la Economía Mexicana

| Año                | Saldo<br>Comercial <sup>2/</sup> | %   | Inversión <sup>1/3/</sup> | %     | Inflación | Tipo<br>de cambio |
|--------------------|----------------------------------|-----|---------------------------|-------|-----------|-------------------|
| 2005               | -7.6                             | -14 | 1,661                     | 7.5   | 3.3       | 10.85             |
| 2006               | -5.8                             | -23 | 1,825                     | 9.9   | 4.1       | 10.92             |
| 2007               | -11.2                            | 82  | 1,952                     | 6.9   | 3.8       | 10.93             |
| 2008               | -16.8                            | 67  | 2,066                     | 5.9   | 6.5       | 11.22             |
| 2009               | -4.7                             | -73 | 1,820                     | -11.9 | 3.6       | 13.58             |
| 2010               | -3.1                             | -32 | 1,863                     | 2.4   | 4.4       | 12.66             |
| 2011 <sup>4/</sup> | 1.4                              | --- | 1,940                     | 8.6   | 3.1       | 12.10             |

1/ Miles de millones de pesos de 2003.

2/ Miles de millones de dólares.

3/ Formación Bruta de Capital Fijo, cifras reales, promedio al segundo trimestre de 2011, la variación de la inversión corresponde al índice de volumen físico.

4/ Saldo comercial a agosto. Inflación a septiembre; tipo de cambio interbancario venta, promedio enero-septiembre.

Fuente: INEGI, octubre de 2011.

## PRODUCTO INTERNO BRUTO MINERO TRIMESTRAL

(millones de pesos a precios de 2003)

| Año     | Concepto                        | 1er. Trim |       | 2o. Trim |      | 3er. Trim |      | 4o. Trim |      | Promedio Anual |      |
|---------|---------------------------------|-----------|-------|----------|------|-----------|------|----------|------|----------------|------|
|         |                                 | Valor     | % *   | Valor    | % *  | Valor     | % *  | Valor    | % *  | Valor          | % *  |
| 2005    | Minería 3/                      | 435,209   | -2.5  | 456,995  | 1.2  | 446,298   | -1.0 | 452,434  | 1.1  | 447,734        | -0.3 |
|         | Petróleo crudo y gas natural 2/ | 374,221   | -2.3  | 393,138  | 1.4  | 384,301   | -0.9 | 389,174  | 1.2  | 385,208        | -0.1 |
|         | Minería no petrolera 1/         | 60,988    | -3.7  | 63,856   | -0.1 | 61,997    | -1.9 | 63,261   | 0.2  | 62,525         | -1.4 |
| 2006    | Minería 3/                      | 453,189   | 4.1   | 458,777  | 0.4  | 457,844   | 2.6  | 445,716  | -1.5 | 453,881        | 1.4  |
|         | Petróleo crudo y gas natural 2/ | 388,872   | 3.9   | 394,200  | 0.3  | 393,334   | 2.4  | 379,785  | -2.4 | 389,048        | 1.0  |
|         | Minería no petrolera 1/         | 64,317    | 5.5   | 64,578   | 1.1  | 64,510    | 4.1  | 65,931   | 4.2  | 64,834         | 3.7  |
| 2007    | Minería 3/                      | 449,539   | -0.8  | 459,808  | 0.2  | 456,827   | -0.2 | 445,079  | -0.1 | 452,813        | -0.2 |
|         | Petróleo crudo y gas natural 2/ | 383,356   | -1.4  | 390,935  | -0.8 | 383,559   | -2.5 | 371,049  | -2.3 | 382,225        | -1.8 |
|         | Minería no petrolera 1/         | 66,183    | 2.9   | 68,873   | 6.7  | 73,268    | 13.6 | 74,030   | 12.3 | 70,589         | 8.9  |
| 2008    | Minería 3/                      | 447,057   | -0.6  | 442,626  | -3.7 | 448,942   | -1.7 | 442,692  | -0.5 | 445,329        | -1.7 |
|         | Petróleo crudo y gas natural 2/ | 377,776   | -1.5  | 369,469  | -5.5 | 368,651   | -3.9 | 366,399  | -1.3 | 370,574        | -3.0 |
|         | Minería no petrolera 1/         | 69,281    | 4.7   | 73,156   | 6.2  | 80,291    | 9.6  | 76,293   | 3.1  | 74,755         | 5.9  |
| 2009    | Minería 3/                      | 432,781   | -3.2  | 433,208  | -2.1 | 438,251   | -2.4 | 425,517  | -3.9 | 432,439        | -2.9 |
|         | Petróleo crudo y gas natural 2/ | 360,067   | -4.7  | 355,840  | -3.7 | 355,466   | -3.6 | 351,597  | -4.0 | 355,743        | -4.0 |
|         | Minería no petrolera 1/         | 72,714    | 5.0   | 77,368   | 5.8  | 82,785    | 3.1  | 73,920   | -3.1 | 76,697         | 2.6  |
| 2010    | Minería 3/                      | 438,924   | 1.4   | 446,155  | 3.0  | 450,807   | 2.9  | 431,622  | 1.4  | 441,877        | 2.2  |
|         | Petróleo crudo y gas natural 2/ | 355,635   | -1.2  | 354,622  | -0.3 | 357,980   | 0.7  | 350,517  | -0.3 | 354,689        | -0.3 |
|         | Minería no petrolera 1/         | 83,288    | 14.5  | 91,533   | 18.3 | 92,827    | 12.1 | 81,105   | 9.7  | 87,188         | 13.7 |
| 2011 p/ | Minería 3/                      | 424,762   | -3.2  | 435,847  | -2.3 |           |      |          |      | 430,304        | -2.8 |
|         | Petróleo crudo y gas natural 2/ | 350,908   | -1.3  | 349,195  | -1.5 |           |      |          |      | 350,052        | -1.4 |
|         | Minería no petrolera 1/         | 73,854    | -11.3 | 86,652   | -5.3 |           |      |          |      | 80,253         | -8.2 |

\* Variación con respecto al mismo período del año anterior.

1/ Minería de minerales metálicos y no metálicos excepto petróleo y gas; servicios relacionados con la minería. Incluye las siguientes ramas del INEGI: 05 Extrac. y benef. de Carbón y Grafito y Fabr. de sus deriv.; 07 Extrac. y benef. de Mineral de Hierro; 08 Extr., benef., fund. y ref. de Min. Met. no Ferrosos; 09 Explot. Canteras y Extrac. de Arena, Grava y Arcillas; y 10 Extrac. y benef. de Otros Minerales no Metálicos.

2/ Extracción de petróleo y gas. Incluye la siguiente rama del INEGI: 06 Extracción de petróleo crudo y gas natural.

3/ Incluye la siguiente rama del INEGI: 06 Extracción de petróleo crudo y gas natural más la Minería no petrolera.

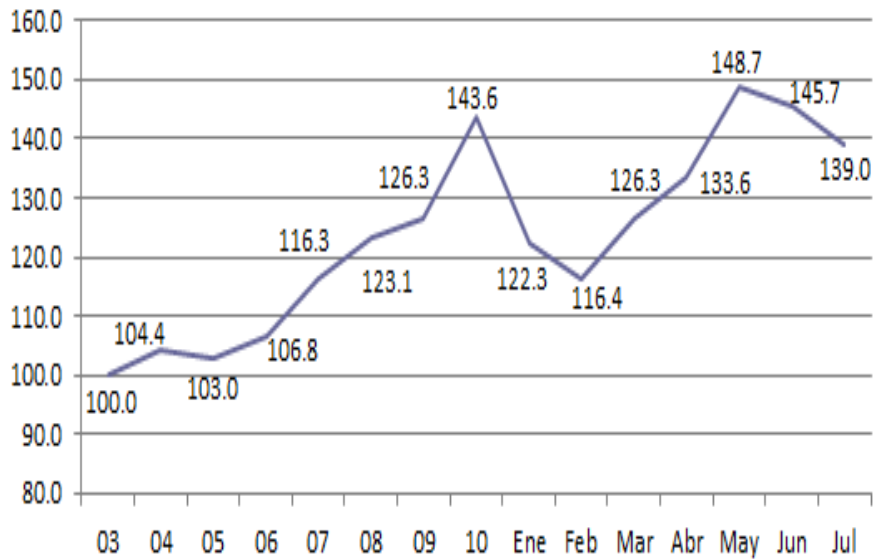
p/ Cifras actualizadas

Nota: La suma de las cifras parciales puede no coincidir con el total debido al redondeo.

Fuente: INEGI, Sistema de Cuentas Nacionales de México.

**Índice de Volumen Físico de la Minería Extractiva (no petrolera) 2003=100  
(Incluye minerales concesibles y no concesibles)  
(2003-2011)**

| Año  | Índice |
|------|--------|
| 2003 | 100.0  |
| 2004 | 104.4  |
| 2005 | 103.0  |
| 2006 | 106.8  |
| 2007 | 116.3  |
| 2008 | 123.1  |
| 2009 | 126.3  |
| 2010 | 143.6  |
| 2011 |        |
| Ene  | 122.3  |
| Feb  | 116.4  |
| Mar  | 126.3  |
| Abr  | 133.6  |
| May  | 148.7  |
| Jun  | 145.7  |
| Jul  | 139.0  |



Fuente: INEGI, octubre de 2011.

## INDICE DE VOLUMEN FISICO DE LA PRODUCCION MINERO METALURGICA

Se incluyen los cinco principales productos (minerales concesibles).

(Índice 1993=100)

| Año                | Total <sup>1/</sup> |      | Oro    |      | Plata  |       | Plomo  |       | Cobre  |       | Zinc   |       |
|--------------------|---------------------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|
|                    | Índice              | % *  | Índice | % *  | Índice | % *   | Índice | % *   | Índice | % *   | Índice | % *   |
| 2000               | 121.2               | 3.3  | 232.2  | 10.0 | 113.7  | 11.8  | 88.4   | 22.2  | 111.5  | -0.4  | 97.9   | 5.5   |
| 2001               | 122.0               | 0.7  | 231.5  | -0.3 | 125.4  | 10.3  | 81.8   | -7.5  | 114.9  | 3.1   | 116.6  | 19.2  |
| 2002               | 114.0               | -6.6 | 212.2  | -8.4 | 130.2  | 3.8   | 76.3   | -6.6  | 103.6  | -9.9  | 117.8  | 1.0   |
| 2003               | 114.1               | 0.1  | 199.4  | -6.0 | 121.9  | -6.4  | 79.4   | 4.0   | 99.9   | -3.5  | 112.5  | -4.5  |
| 2004               | 116.7               | 2.2  | 196.2  | -1.6 | 101.5  | -16.7 | 61.0   | -23.1 | 115.9  | 16.0  | 102.2  | -9.2  |
| 2005               | 128.8               | 10.4 | 240.8  | 22.8 | 106.2  | 4.6   | 66.9   | 9.7   | 122.8  | 6.0   | 116.5  | 14.1  |
| 2006               | 129.7               | 0.7  | 322.8  | 34.0 | 99.9   | -5.9  | 66.3   | -1.0  | 107.7  | -12.2 | 118.0  | 1.2   |
| 2007               | 133.9               | 3.2  | 353.9  | 9.6  | 97.4   | -2.5  | 49.4   | -25.4 | 110.4  | 2.4   | 116.4  | -1.4  |
| 2008               | 135.9               | 1.5  | 452.9  | 28.0 | 110.4  | 13.4  | 55.4   | 12.1  | 88.4   | -19.9 | 108.4  | -6.9  |
| 2009               | 128.5               | -5.5 | 462.1  | 2.0  | 111.5  | 1.0   | 55.2   | -0.4  | 74.9   | -15.2 | 104.9  | -3.2  |
| 2010               | 141.7               | 10.3 | 578.1  | 25.1 | 129.0  | 15.7  | 66.6   | 20.6  | 74.8   | -0.2  | 105.4  | 0.5   |
| 2011 <sup>2/</sup> | 180.3               | 30.1 | 705.6  | 26.5 | 157.9  | 26.8  | 88.7   | 38.4  | 121.2  | 65.3  | 143.2  | 36.2  |
| Enero              | 157.0               | 16.8 | 605.8  | 25.5 | 133.4  | 16.1  | 71.5   | 46.2  | 106.2  | 41.8  | 103.1  | -11.8 |
| Febrero            | 159.5               | 23.0 | 585.6  | 18.2 | 138.2  | 23.4  | 97.0   | 65.2  | 93.7   | 30.5  | 143.6  | 37.9  |
| Marzo              | 180.3               | 26.4 | 743.6  | 17.1 | 174.6  | 48.3  | 74.6   | 20.7  | 125.9  | 72.5  | 131.5  | 39.3  |
| Abril              | 184.9               | 34.9 | 718.6  | 34.5 | 166.3  | 27.3  | 76.4   | 11.5  | 127.6  | 77.2  | 156.7  | 45.8  |
| Mayo               | 193.4               | 37.3 | 782.8  | 34.1 | 171.8  | 39.9  | 110.8  | 59.0  | 131.4  | 100.6 | 149.2  | 39.8  |
| Junio              | 196.4               | 37.0 | 751.1  | 38.2 | 149.8  | 15.6  | 88.8   | 37.0  | 143.7  | 86.9  | 160.9  | 43.1  |
| Julio              | 190.3               | 34.0 | 751.6  | 19.1 | 171.0  | 18.9  | 101.8  | 33.8  | 120.2  | 51.8  | 157.3  | 67.3  |

Nota: Excluye la extracción de petróleo crudo y gas natural.

1/ Se incluyen los principales productos minerales concesibles: Oro, Plata, Plomo, Cobre, Zinc, Antimonio, Arsénico, Bismuto, Estaño, Cadmio, Molibdeno, Carbón no Coquizable, Coque, Fierro, Manganeseo, Azufre, Grafito, Barita, Dolomita, Fluorita, Caolín, Arena Sílica, Yeso, Wollastonita, Celestita, Feldespato, Sal, Diatomita, Sulfato de Sodio y Sulfato de Magnesio.

\* Variación con respecto al mismo período del año anterior.

2/ Enero-julio

Fuente: Estadística de la Industria Minero-Metalúrgica, INEGI, octubre de 2011.

**Producción Nacional Minero-Metalúrgica 2008-2009**  
(miles de toneladas y millones de pesos)

| 2008    |        |        |       | 2009    |       |        |       | MINERAL                             |
|---------|--------|--------|-------|---------|-------|--------|-------|-------------------------------------|
| Volumen | %      | Valor  | %     | Volumen | %     | Valor  | %     |                                     |
| 50      | 28.0   | 15,698 | 63.1  | 51      | 2.0   | 21,712 | 38.3  | <b>METALES PRECIOSOS</b>            |
| 2,668   | 13.5   | 13,973 | 26.6  | 2,693   | 0.9   | 17,331 | 24.0  | ORO (ton)                           |
|         |        | 29,671 | 43.6  |         |       | 39,043 | 31.6  | PLATA (ton) <sup>1/</sup>           |
|         |        |        |       |         |       |        |       | <b>SUMA</b>                         |
| 101     | 12.1   | 2,272  | -8.7  | 100     | -0.4  | 2,421  | 6.6   | <b>METALES INDS. NO FERROSOS</b>    |
| 269     | -19.9  | 20,199 | -22.1 | 228     | -15.2 | 15,727 | -22.1 | PLOMO                               |
| 397     | -6.8   | 8,099  | -46.5 | 384     | -3.2  | 8,562  | 5.7   | COBRE                               |
| 380     | -8.2   | 26     | 2.0   | 74      | -80.5 | 4      | -83.1 | ZINC                                |
| 0       | -      | 0      | -     | -       | -     | -      | -     | *ANTIMONIO                          |
| 1,132   | -3.2   | 313    | -16.1 | 854     | -24.6 | 184    | -41.3 | *ARSENICO                           |
| 15      | -21.1  | 3,166  | 2.0   | -       | -     | -      | -     | *BISMUTO                            |
| 1,550   | -3.4   | 99     | -24.1 | 1,510   | -2.6  | 58     | -41.6 | *ESTAÑO                             |
| 7,812   | 20.4   | 5,289  | 13.3  | 10,167  | 30.1  | 3,293  | -37.7 | *CADMIO                             |
| 0       | -      | 0      | -     | 0       | -     | 0      | -     | *MOLIBDENO                          |
|         |        | 36,300 | -25.5 |         |       | 30,250 | -16.7 | *TITANIO                            |
|         |        |        |       |         |       |        |       | <b>SUMA</b>                         |
| 10,403  | -12.5  | 5,238  | 1.2   | 9,496   | -8.7  | 4,880  | -6.8  | <b>METS. Y MRALES. SIDERURGICOS</b> |
| 1,547   | 0.7    | 5,102  | 21.1  | 1,315   | -15.0 | 6,048  | 18.5  | CARBON MINERAL                      |
| 7,726   | 5.5    | 6,259  | 34.0  | 7,073   | -8.4  | 4,885  | -22.0 | COQUE                               |
| 170     | 11.5   | 1,007  | 365.9 | 119     | -30.2 | 370    | -63.2 | HIERRO                              |
|         |        | 17,606 | 23.3  |         |       | 16,182 | -8.1  | MANGANESO                           |
|         |        |        |       |         |       |        |       | <b>SUMA</b>                         |
| 1,041   | 1.1    | 3,354  | 653.5 | 1,114   | 7.0   | 49     | -98.5 | <b>MRALES. NO METALICOS</b>         |
| 7       | -27.0  | 13     | -2.8  | 5       | -29.4 | 12     | -6.2  | AZUFRE                              |
| 140     | -24.7  | 156    | -31.5 | 153     | 8.4   | 230    | 47.0  | GRAFITO                             |
| 1,234   | 9.9    | 114    | 14.6  | 983     | -20.4 | 94     | -17.5 | BARITA                              |
| 1,058   | 13.3   | 1,596  | 23.6  | 1,046   | -1.1  | 2,052  | 28.6  | DOLOMITA                            |
| 85      | -1.9   | 167    | 8.7   | 78      | -8.2  | 176    | 5.5   | FLUORITA                            |
| 2,779   | -5.8   | 1,152  | -2.4  | 2,484   | -10.6 | 1,289  | 11.9  | CAOLIN                              |
| 5,135   | -13.9  | 478    | -8.8  | 5,757   | 12.1  | 617    | 29.1  | SILICE                              |
| 969     | 2222.8 | 508    | -     | 1,421.8 | 46.7  | 1,252  | 146.5 | YESO                                |
| 47      | -7.8   | 102    | -18.5 | 30      | -36.5 | 64     | -37.1 | FOSFORITA                           |
| 30      | -69.4  | 15     | -68.8 | 36      | 22.0  | 22     | 47.3  | WOLLASTONITA                        |
| 446     | 1.6    | 171    | -2.2  | 348     | -22.0 | 176    | 3.0   | CELESTITA                           |
| 8,809   | 9.7    | 1,481  | 8.7   | 7,445   | -15.5 | 2,114  | 42.7  | FELDESPATO                          |
| 129     | 55.8   | 330    | 62.2  | 81      | -37.1 | 214    | -35.1 | SAL                                 |
| 618     | 2.1    | 718    | 9.5   | 606     | -1.9  | 888    | 23.7  | DIATOMITAS                          |
| 43      | 27.0   | 85     | 93.1  | 35      | -19.4 | 90     | 5.9   | a/ SULFATO DE SODIO                 |
|         |        | 10,443 | 58.6  |         |       | 9,342  | -10.5 | a/ SULFATO DE MAGNESIO              |
|         |        | 94,020 | 4.2   |         |       | 94,817 | 0.8   | <b>SUMA</b>                         |
|         |        |        |       |         |       |        |       | <b>TOTAL</b>                        |

\*Toneladas, y para el caso de estaño valor en miles de pesos.

<sup>1/</sup> El volumen de la producción de mina de plata creció 3.2% en el lapso ene-dic de 2008 y 0.6% en el lapso ene-dic de 2009

Fuente: INEGI y DGM, SE, julio de 2010.

**Producción Nacional Minero-Metalúrgica 2010-2011**  
(miles de toneladas y millones de pesos)

| 2010                                |       |         |       | 2011    |       |         |       | MINERAL             |
|-------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------------------|
| Volumen                             | %     | Valor   | %     | Volumen | %     | Valor   | %     |                     |
| <b>METALES PRECIOSOS</b>            |       |         |       |         |       |         |       |                     |
| 73                                  | 41.3  | 36,288  | 67.1  | 46      | 13.8  | 25,636  | 34.5  | ORO (ton)           |
| 3,499                               | 29.9  | 28,993  | 67.3  | 2,225   | 16.9  | 30,443  | 121.3 | PLATA (ton) 1/      |
|                                     |       | 65,281  | 67.2  |         |       | 56,079  | 70.8  | <b>SUMA</b>         |
| <b>METALES INDS. NO FERROSOS</b>    |       |         |       |         |       |         |       |                     |
| 158                                 | 57.64 | 4,299   | 77.58 | 94      | 12.7  | 2,883   | 34.0  | PLOMO               |
| 238                                 | 4.329 | 22,696  | 44.31 | 215     | 59.3  | 23,962  | 98.1  | COBRE               |
| 518                                 | 34.8  | 14,170  | 65.5  | 306     | 4.0   | 8,457   | 7.0   | ZINC                |
| 71                                  | -4.1  | 8       | 87.3  | 5       | -86.1 | 1       | -77.1 | *ANTIMONIO          |
| -                                   | -     | -       | -     | 0       | -     | 0       | -     | *ARSENICO           |
| 982                                 | 15.0  | 215     | 17.0  | 544     | -5.7  | 144     | 16.5  | *BISMUTO            |
| -                                   | -     | -       | -     | 0       | -     | 0       | -     | *ESTAÑO             |
| 1,464                               | -3.0  | 72      | 23.5  | 840     | 3.6   | 29      | -28.7 | *CADMIO             |
| 62                                  | -     | 65      | -     | 62      | 93.8  | 97      | 200.8 | *SELENIO            |
| 10,849                              | -     | 4,716   | -     | 6,307   | -0.8  | 2,715   | -2.5  | *MOLIBDENO          |
| 0                                   | -     | 0       | -     | 0       | -     | 0       | -     | *TITANIO            |
|                                     |       | 46,241  | 52.9  |         |       | 38,289  | 52.3  | <b>SUMA</b>         |
| <b>METS. Y MRALES. SIDERURGICOS</b> |       |         |       |         |       |         |       |                     |
| 11,247                              | 18.4  | 5,651   | 15.8  | 9,812   | 56.8  | 5,004   | 59.6  | CARBON MINERAL      |
| 1,649                               | 25.3  | 6,937   | 14.7  | 967     | 3.0   | 4,011   | -1.3  | COQUE               |
| 7,931                               | 12.1  | 7,088   | 45.1  | 4,748   | 2.4   | 4,652   | 25.2  | HIERRO              |
| 175                                 | 47.4  | 731     | 97.3  | 98      | -3.8  | 347     | -24.3 | MANGANESO           |
|                                     |       | 20,406  | 26.1  |         |       | 14,014  | 23.2  | <b>SUMA</b>         |
| <b>MRALES. NO METALICOS</b>         |       |         |       |         |       |         |       |                     |
| 992                                 | -11.0 | 1,215   | -0-   | 560     | -8.7  | 1,108   | 58.7  | AZUFRE              |
| 7                                   | 29.8  | 16      | 25.9  | 4       | 25.0  | 10      | 20.1  | GRAFITO             |
| 143                                 | -5.6  | 208     | -9.4  | 90      | 4.4   | 122     | -4.3  | BARITA              |
| 1,500                               | 52.6  | 140     | 48.3  | 1,251   | 30.0  | 120     | 33.1  | DOLOMITA            |
| 1,067                               | 2.1   | 2,154   | 4.9   | 632     | 4.5   | 1,267   | 4.9   | FLUORITA            |
| 120                                 | 53.8  | 263     | 49.4  | 74      | 7.5   | 200     | 31.4  | CAOLIN              |
| 2,608                               | 5.0   | 1,307   | 1.4   | 1,488   | -2.7  | 733     | -4.9  | SILICE              |
| 3,560                               | -38.2 | 368     | -40.4 | 2,622   | 25.9  | 226     | 4.0   | YESO                |
| 1,507                               | 6.0   | 1,278   | 2.0   | 943.3   | 5.2   | 625     | -18.5 | FOSFORITA           |
| 47                                  | 56.6  | 98      | 51.8  | 27      | 6.2   | 50      | -8.0  | WOLLASTONITA        |
| 31                                  | -13.0 | 18      | -18.3 | 25      | 36.3  | 14      | 26.5  | CELESTITA           |
| 399                                 | 14.8  | 209     | 19.0  | 221     | -6.3  | 114     | -8.2  | FELDESPATO          |
| 8,431                               | 13.2  | 2,223   | 5.2   | 5,048   | 5.1   | 1,058   | -16.6 | SAL                 |
| 92                                  | 13.5  | 245     | 14.7  | 54      | 4.2   | 154     | 13.0  | DIATOMITAS          |
| 620                                 | 2.3   | 857     | -3.5  | 362     | 2.5   | 488     | 2.1   | a/ SULFATO DE SODIO |
| 39                                  | 13.5  | 97      | 7.7   | 23      | 0.2   | 57      | -1.6  | SULFATO DE MAGNESIO |
|                                     |       | 10,695  | 14.5  |         |       | 6,346   | 2.9   | <b>SUMA</b>         |
|                                     |       | 142,623 | 50.4  |         |       | 114,728 | 51.9  | <b>TOTAL</b>        |

\*Toneladas, y para el caso de estaño valor en miles de pesos.

1/ El volumen de la producción de mina de plata creció 24.1% en el lapso ene-dic de 2010 y 11.3% en el período enero-julio de 2011.

a/ A partir de enero de 2011 se incluye el Selenio.

Fuente: INEGI y DGM, SE, octubre de 2011.

**PARTICIPACION DE LOS PRODUCTOS EN EL VALOR DE LA PRODUCCION NACIONAL MINERO-METALURGICA,  
2009-2010**

(ordenados conforme al valor de 2010 y respecto a su sector, valor en miles de pesos)

| PRODUCTO                                   | 2009                |                            | 2010                 |             | Participación en valor (%) |
|--|---------------------|----------------------------|----------------------|-------------|----------------------------|
|  | Valor               | Participación en valor (%) | Valor                | Var % *     |                            |
| <b>Metales Preciosos 1/</b>                |                     |                            |                      |             |                            |
| Oro  | 21,712,205.8        | 22.9                       | 36,287,921.5         | 67.1        | 25.4                       |
| Plata                                      | 17,331,026.5        | 18.3                       | 28,992,643.9         | 67.3        | 20.3                       |
| <b>Suma</b>                                | <b>39,043,232.3</b> | <b>41.2</b>                | <b>65,280,565.4</b>  | <b>67.2</b> | <b>45.8</b>                |
| <b>Metales Industriales No Ferrosos 1/</b> |                     |                            |                      |             |                            |
| Cobre                                      | 15,727,029.7        | 16.6                       | 22,695,596.0         | 44.3        | 15.9                       |
| Zinc                                       | 8,562,304.4         | 9.0                        | 14,169,588.9         | 65.5        | 9.9                        |
| Molibdeno                                  | 3,293,275.3         | 3.5                        | 4,716,224.8          | 43.2        | 3.3                        |
| Plomo                                      | 2,420,995.5         | 2.6                        | 4,299,251.9          | 77.6        | 3.0                        |
| Bismuto                                    | 183,733.9           | 0.2                        | 214,889.4            | 17.0        | 0.2                        |
| Cadmio                                     | 57,943.0            | 0.1                        | 71,583.0             | 23.5        | 0.1                        |
| Selenio                                    | N.D.                | -                          | 65,222.6             | -           | 0.0                        |
| Antimonio                                  | 4,406.3             | 0.0                        | 8,254.9              | 87.3        | 0.0                        |
| Arsénico                                   | -                   | -                          | -                    | -           | -                          |
| Estaño                                     | -                   | -                          | -                    | -           | -                          |
| <b>Suma</b>                                | <b>30,249,688.1</b> | <b>31.9</b>                | <b>46,240,611.5</b>  | <b>52.9</b> | <b>32.4</b>                |
| <b>Metales y Minerales Siderúrgicos</b>    |                     |                            |                      |             |                            |
| Pellets de Hierro 1_/_                     | 4,884,608.7         | 5.2                        | 7,087,859.8          | 45.1        | 5.0                        |
| Coque 2_/_                                 | 6,047,705.7         | 6.4                        | 6,937,346.1          | 14.7        | 4.9                        |
| Carbón No Coquizable 2_/_                  | 4,879,781.0         | 5.1                        | 5,650,597.8          | 15.8        | 4.0                        |
| Manganeso 1_/_                             | 370,262.5           | 0.4                        | 730,535.7            | 97.3        | 0.5                        |
| <b>Suma</b>                                | <b>16,182,357.9</b> | <b>17.1</b>                | <b>20,406,339.4</b>  | <b>26.1</b> | <b>14.3</b>                |
| <b>Minerales No Metálicos</b>              |                     |                            |                      |             |                            |
| Sal  | 2,113,837.7         | 2.2                        | 2,222,803.5          | 5.2         | 1.6                        |
| Fluorita                                   | 2,052,332.8         | 2.2                        | 2,153,888.5          | 4.9         | 1.5                        |
| Arena Silica                               | 1,288,879.5         | 1.4                        | 1,306,931.1          | 1.4         | 0.9                        |
| Fosforita                                  | 1,252,483.5         | 1.3                        | 1,277,852.3          | 2.0         | 0.9                        |
| Azufre 3_/_                                | 49,468.8            | 0.1                        | 1,214,529.9          | 2,355.1     | 0.9                        |
| Sulfato de Sodio                           | 888,468.0           | 0.9                        | 857,217.9            | -3.5        | 0.6                        |
| Yeso                                       | 616,822.9           | 0.7                        | 367,572.8            | -40.4       | 0.3                        |
| Caolín                                     | 175,770.5           | 0.2                        | 262,628.2            | 49.4        | 0.2                        |
| Diatomita                                  | 213,736.4           | 0.2                        | 245,077.0            | 14.7        | 0.2                        |
| Feldespató                                 | 175,887.1           | 0.2                        | 209,308.4            | 19.0        | 0.1                        |
| Barita                                     | 229,865.6           | 0.2                        | 208,178.7            | -9.4        | 0.1                        |
| Dolomita                                   | 94,389.7            | 0.1                        | 140,025.2            | 48.3        | 0.1                        |
| Wollastonita                               | 64,384.4            | 0.1                        | 97,727.5             | 51.8        | 0.1                        |
| Sulfato de Magnesio                        | 90,424.8            | 0.1                        | 97,351.5             | 7.7         | 0.1                        |
| Celestita                                  | 22,376.2            | 0.0                        | 18,287.9             | -18.3       | 0.0                        |
| Grafito                                    | 12,468.3            | 0.0                        | 15,692.6             | 25.9        | 0.0                        |
| <b>Suma</b>                                | <b>9,341,596.2</b>  | <b>9.9</b>                 | <b>10,695,073.0</b>  | <b>14.5</b> | <b>7.5</b>                 |
| <b>Total</b>                               | <b>94,816,874.6</b> | <b>100.0</b>               | <b>142,622,589.3</b> | <b>50.4</b> | <b>100.0</b>               |

1\_/\_ Contenido Metálico

2\_/\_ Se considera el obtenido en la refinación de petróleo crudo

El valor de la producción para los metales excepto el arsénico, bismuto y hierro, se obtiene con las cotizaciones internacionales, para los minerales no metálicos, el valor de la producción se obtiene con los precios del mercado nacional.

Nota: La suma de los parciales, puede no coincidir con los totales debido al redondeo

Fuente: INEGI, junio de 2011.

Participación de los Estados en la Producción Minera en el año  
2010

|                 | <u>ORO (KGS)</u> | <u>PAR.(%)</u> |                 | <u>PLATA (KGS)</u> | <u>PAR.(%)</u> |
|-----------------|------------------|----------------|-----------------|--------------------|----------------|
| SONORA          | 22,539.1         | 28.4           | ZACATECAS       | 2,028,766.0        | 46.0           |
| CHIHUAHUA       | 18,256.6         | 23.0           | CHIHUAHUA       | 783,081.0          | 17.8           |
| ZACATECAS       | 12,836.7         | 16.2           | DURANGO         | 455,208.0          | 10.3           |
| GUERRERO        | 10,219.8         | 12.9           | SONORA          | 325,325.0          | 7.4            |
| DURANGO         | 7,519.0          | 9.5            | SAN LUIS POTOSI | 179,895.0          | 4.1            |
| SAN LUIS POTOSI | 4,794.5          | 6.0            | MEXICO          | 158,731.0          | 3.6            |
| MEXICO          | 783.1            | 1.0            | COAHUILA        | 122,602.0          | 2.8            |
| GUANAJUATO      | 678.0            | 0.9            | GUERRERO        | 61,743.0           | 1.4            |
| QUERETARO       | 482.0            | 0.6            | AGUASCALIENTES  | 58,288.0           | 1.3            |
| OAXACA          | 423.2            | 0.5            | GUANAJUATO      | 55,377.0           | 1.3            |
| BAJA CALIFORNIA | 358.0            | 0.5            | JALISCO         | 51,149.0           | 1.2            |
| AGUASCALIENTES  | 159.0            | 0.2            | SINALOA         | 47,828.0           | 1.1            |
| SINALOA         | 124.3            | 0.2            | QUERETARO       | 32,493.0           | 0.7            |
| NAYARIT         | 89.3             | 0.1            | HIDALGO         | 19,806.0           | 0.4            |
| JALISCO         | 78.8             | 0.1            | BAJA CALIFORNIA | 14,284.0           | 0.3            |
| MICHOACÁN       | 23.1             | 0.0            | NAYARIT         | 9,126.0            | 0.2            |
| MORELOS         | 8.6              | 0.0            | OAXACA          | 4,370.0            | 0.1            |
| HIDALGO         | 2.4              | 0.0            | MORELOS         | 2,116.0            | 0.0            |
| COAHUILA        | 0.0              | 0.0            | MICHOACÁN       | 561.0              | 0.0            |
| <b>TOTAL:</b>   | <b>79,375.5</b>  | <b>100.0</b>   | <b>TOTAL:</b>   | <b>4,410,749.0</b> | <b>100.0</b>   |

10 Fuente: INEGI y DGM, SE, junio de 2011.

Continúa



Participación de los Estados en el Valor Total de la  
Producción Minera Nacional durante el año 2010

| Estado          | Lugar | Val. Prod. 1/<br>(mill. de pesos) | Participación en el valor total (%) |      |      | Minerales concesibles producidos.  |
|-----------------|-------|-----------------------------------|-------------------------------------|------|------|--|
|                 |       | 2010                              | 2010                                | 2009 | 2008 |  |
| SONORA          | 1°    | 36,022,517.87                     | 23.0%                               | 21.8 | 26.5 | Oro, Plata, Cobre, Caolín, Fierro Mina, Grafito, Molibdeno, Wollastonita, Yeso |
| ZACATECAS       | 2°    | 35,982,424.92                     | 22.9%                               | 18.5 | 15.6 | Oro, Plata, Plomo, Cobre, Zinc, Barita, Caolín, Dolomita, Fierro Mina, Yeso    |
| CHIHUAHUA       | 3°    | 22,032,371.32                     | 14.0%                               | 14.6 | 15.1 | Plata, Plomo, Barita, Carbón, Celestita, Coque, Dolomita, Fierro Mina,         |
| COAHUILA        | 4°    | 17,723,176.50                     | 11.3%                               | 13.4 | 12.7 | Oro, Plata, Plomo, Cobre, Zinc   |
| SAN LUIS POTOSI | 5°    | 9,606,481.85                      | 6.1%                                | 7.1  | 6.6  | Oro, Plata, Plomo, Cobre, Zinc, Fierro Mina                                    |
| DURANGO         | 6°    | 8,400,066.49                      | 5.4%                                | 6.4  | 5.8  | Oro, Plata, Plomo, Cobre, Zinc   |
| GUERRERO        | 7°    | 7,409,532.28                      | 4.7%                                | 4.5  | 3.4  | Oro, Plata, Plomo, Cobre, Zinc, Fluorita, Arena Sílica, Yeso                   |
| BAJA CALIFORNIA | 8°    | 3,576,303.71                      | 2.3%                                | 3.00 | 2.5  | Oro, Plata, Plomo, Cobre, Zinc, Fosforita, Sal, Yeso                           |
| COLIMA          | 9°    | 3,507,389.16                      | 2.2%                                | 2.50 | 2.2  | Fierro Mina, Fierro Pellets, Sal, Yeso   |
| MEXICO          | 10°   | 3,057,535.46                      | 1.9%                                | 2.30 | 2.1  | Oro, Plata, Plomo, Cobre, Zinc, Yeso   |
| AGUASCALIENTES  | 11°   | 2,006,832.93                      | 1.3%                                | 1.0  | 1.5  | Oro, Plata, Plomo, Cobre, Zinc   |
| MICHOACÁN       | 12°   | 1,448,749.57                      | 0.9%                                | 0.6  | 1.1  | Oro, Plata, Cobre, Caolín, Fierro Mina, Fierro Pellets                         |

1/ Calculado de acuerdo al valor de la producción de minerales concesibles.

Fuente: INEGI y DGM, SE, julio de 2011.

Continúa

Participación de los Estados en el Valor Total  
de la Producción Minera Nacional durante el  
año 2010

| Estado       | Lu-<br>gar | Val. Prod. 1/<br>(mill. de<br>pesos) | Participación en el valor<br>total (%) |               |               | Minerales concesibles producidos.  |
|--------------|------------|--------------------------------------|--|---------------|---------------|--|
|              |            |                                      | 2010                                   | 2009          | 2008          |  |
| HIDALGO      | 13°        | 1,177,923.18                         | 0.8%                                   | 0.4           | 0.4           | Oro, Plata, Plomo, Cobre, Zinc, Caolín, Manganeso                                |
| VERACRUZ     | 14°        | 1,006,467.53                         | 0.6%                                   | 0.9           | 1.1           | Manganeso, Sal, Arena Sílica   |
| SINALOA      | 15°        | 891,095.11                           | 0.6%                                   | 0.4           | 0.4           | Oro, Plata, Plomo, Cobre, Caolín, Feldespato, Arena Sílica                       |
| GUANAJUATO   | 16°        | 841,587.57                           | 0.5%                                   | 0.9           | 1.2           | Oro, Plata, Plomo, Cobre, Barita, Caolín, Diatomita, Dolomita, Fierro Mina, Yeso |
| JALISCO      | 17°        | 803,873.01                           | 0.5%                                   | 0.5           | 0.6           | Barita, Dolomita, Sal, Arena Sílica, Yeso  |
| NUEVO LEON   | 18°        | 496,074.65                           | 0.3%                                   | 0.4           | 0.5           | Oro, Plata, Cobre, Zinc, Feldespato  |
| QUERETARO    | 19°        | 447,038.53                           | 0.3%                                   | 0.6           | 0.6           | Oro, Plata, Plomo, Zinc, Fierro Mina   |
| OAXACA       | 20°        | 247,746.12                           | 0.2%                                   | -             | -             | Oro, Plata, Plomo, Zinc  |
| NAYARIT      | 21°        | 120,901.36                           | 0.1%                                   | 0.1           | 0.1           | Oro, Plata, Plomo, Zinc, Caolín  |
| MORELOS      | 22°        | 25,311.22                            | 0.0%                                   | 0.0           | 0.0           | Oro, Plata   |
| <b>Total</b> |            | <b>156,831,400.3</b>                 | <b>100.0%</b>                          | <b>100.0%</b> | <b>100.0%</b> |  |

1/ Calculado de acuerdo al valor de la producción de minerales concesibles.

Fuente:INEGI y DGM, SE, julio de 2011.

Concluye.

Participación de México en la Producción Minera Mundial 2010

| LUGAR            | PRODUCTO     | PARTICIPACION % |
|------------------|--------------|-----------------|
| <b>Primero</b>   | Plata        | 19.97%          |
| <b>Segundo</b>   | Fluorita     | 19.38%          |
| <b>Tercero</b>   | Bismuto      | 12.97%          |
|                  | Celestita    | 7.42%           |
| <b>Cuarto</b>    | Wollastonita | 8.47%           |
| <b>Quinto</b>    | Plomo        | 5.08%           |
|                  | Diatomita    | 5.09%           |
|                  | Molibdeno    | 4.58%           |
| <b>Sexto</b>     | Cadmio       | 7.36%           |
| <b>Séptimo</b>   | Barita       | 2.12%           |
|                  | Zinc         | 5.46%           |
|                  | Grafito      | 0.61%           |
|                  | Sal          | 3.90%           |
| <b>Octavo</b>    | Manganeso    | 1.52%           |
| <b>Décimo</b>    | Oro          | 3.92%           |
| <b>Doceavo</b>   | Cobre        | 1.94%           |
| <b>Quinceavo</b> | Feldespató   | 2.06%           |

Nota: Cifra preliminares.

Fuente: Mineral Commodity Summaries, Industrial Minerals, Cooper Bulletin, U.S. Geological Survey Publications, Dirección General de Minas de la Secretaría de Economía e INEG, 2011.

# Exportaciones Minero-Metalúrgicas 2007-2011 (ene-jun)

(ordenado conforme al valor de 2010, valor en dólares)

| PRODUCTO                        | 2007 1/                          |                 | 2008 1/                           |                 | 2009 1/               |                          |                          | 2010 1/               |                          |                          | 2011 (ene-jun) 1/     |                 |                          |
|---------------------------------|----------------------------------|-----------------|-----------------------------------|-----------------|-----------------------|--------------------------|--------------------------|-----------------------|--------------------------|--------------------------|-----------------------|-----------------|--------------------------|
|                                 | Valor                            | Participación % | Valor                             | Participación % | Valor                 | Participación %          | Variación 2009/2008 % 2/ | Valor                 | Participación %          | Variación 2010/2009 % 2/ | Valor                 | Participación % | Variación 2011/2010 % 2/ |
| <b>I.- Minerales Metálicos</b>  | <b>9,548,899,582<sup>f</sup></b> | <b>91.6</b>     | <b>11,351,693,802<sup>f</sup></b> | <b>91.5</b>     | <b>9,418,546,379</b>  | <b>92.8</b>              | <b>-17.0</b>             | <b>14,578,789,930</b> | <b>94.2</b>              | <b>54.8</b>              | <b>10,220,471,163</b> | <b>95.4</b>     | <b>53.9</b>              |
| <b>A.- Metales Preciosos</b>    | <b>3,112,118,051<sup>f</sup></b> | <b>29.9</b>     | <b>4,610,525,889<sup>f</sup></b>  | <b>37.2</b>     | <b>5,564,892,796</b>  | <b>54.9</b>              | <b>20.7</b>              | <b>8,444,969,834</b>  | <b>54.6</b>              | <b>51.8</b>              | <b>6,032,198,964</b>  | <b>56.3</b>     | <b>60.4</b>              |
| Oro                             | 1,578,094,603                    | 15.1            | 2,673,445,327                     | 21.6            | 4,003,735,010         | 39.5                     | 49.8                     | 5,753,299,601         | 37.2                     | 43.7                     | 3,513,129,855         | 32.8            | 33.5                     |
| Plata                           | 1,434,218,575                    | 13.8            | 1,770,093,934                     | 14.3            | 1,490,138,693         | 14.7                     | -15.8                    | 2,619,220,383         | 16.9                     | 75.8                     | 2,399,941,685         | 22.4            | 123.1                    |
| Platino                         | 99,128,974                       | 1.0             | 166,017,412                       | 1.3             | 70,992,216            | 0.7                      | -57.2                    | 72,449,418            | 0.5                      | 2.1                      | 117,360,442           | 1.1             | 121.6                    |
| Paladio                         | 675,899                          | 0.0             | 969,216                           | 0.0             | 26,877                | 0.0                      | -97.2                    | 432                   | 0.0                      | -98.4                    | 1,766,982             | 0.0             | --                       |
| <b>B.- Metales Industriales</b> | <b>6,436,781,531<sup>f</sup></b> | <b>61.8</b>     | <b>6,741,167,913<sup>f</sup></b>  | <b>54.3</b>     | <b>3,853,653,583</b>  | <b>38.0</b>              | <b>-42.8</b>             | <b>6,133,820,096</b>  | <b>39.6</b>              | <b>59.2</b>              | <b>4,188,272,199</b>  | <b>39.1</b>     | <b>45.4</b>              |
| Cobre                           | 1,746,777,649                    | 16.8            | 1,657,863,826                     | 13.4            | 1,199,437,358         | 11.8                     | -27.7                    | 2,025,072,742         | 13.1                     | 68.8                     | 1,417,251,121         | 13.2            | 66.5                     |
| Hierro                          | 2,086,644,069                    | 20.0            | 2,820,080,828                     | 22.7            | 901,960,591           | 8.9                      | -68.0                    | 1,713,609,463         | 11.1                     | 90.0                     | 1,090,050,881         | 10.2            | 23.3                     |
| Zinc                            | 1,101,289,218                    | 10.6            | 612,352,239                       | 4.9             | 572,239,283           | 5.6                      | -6.6                     | 881,526,256           | 5.7                      | 54.0                     | 525,309,001           | 4.9             | 26.5                     |
| Aluminio                        | 512,807,838                      | 4.9             | 598,816,115                       | 4.8             | 379,158,773           | 3.7                      | -36.7                    | 553,869,376           | 3.6                      | 46.1                     | 367,988,256           | 3.4             | 52.5                     |
| Plomo                           | 152,345,297                      | 1.5             | 231,058,887                       | 1.9             | 430,967,207           | 4.2                      | 86.5                     | 486,064,225           | 3.1                      | 12.8                     | 551,565,671           | 5.2             | 120.6                    |
| Molibdeno                       | 681,932,683                      | 6.5             | 630,923,146                       | 5.1             | 254,066,249           | 2.5                      | -69.7                    | 339,937,449           | 2.2                      | 33.8                     | 163,959,217           | 1.5             | -6.6                     |
| Estaño                          | 36,552,151                       | 0.4             | 63,388,210                        | 0.5             | 38,451,606            | 0.4                      | -39.3                    | 36,383,008            | 0.2                      | -5.4                     | 20,963,337            | 0.2             | 18.1                     |
| Magnesio                        | 17,857,240                       | 0.2             | 22,429,795                        | 0.2             | 17,414,616            | 0.2                      | -22.4                    | 24,422,243            | 0.2                      | 40.2                     | 9,141,696             | 0.1             | -7.7                     |
| Manganeso                       | 15,848,053                       | 0.2             | 21,566,748                        | 0.2             | 18,039,510            | 0.2                      | -16.4                    | 22,669,217            | 0.1                      | 25.7                     | 6,877,254             | 0.1             | -2.6                     |
| Bismuto                         | 32,536,473                       | 0.3             | 22,676,886                        | 0.2             | 14,236,412            | 0.1                      | -37.2                    | 14,757,603            | 0.1                      | 3.7                      | 7,984,108             | 0.1             | 13.7                     |
| Otros                           | 52,190,850                       | 0.5             | 60,011,233                        | 0.5             | 27,681,978            | 0.3                      | -53.9                    | 35,508,514            | 0.2                      | 28.3                     | 27,161,657            | 0.3             | 35.4                     |
| <b>II.- No Metálicos</b>        | <b>873,639,298<sup>f</sup></b>   | <b>8.4</b>      | <b>1,052,472,578<sup>f</sup></b>  | <b>8.5</b>      | <b>725,691,651</b>    | <b>7.2</b>               | <b>-31.0</b>             | <b>895,044,096</b>    | <b>5.8</b>               | <b>23.3</b>              | <b>487,250,658</b>    | <b>4.6</b>      | <b>17.5</b>              |
| Sal                             | 113,243,970                      | 1.1             | 146,036,697                       | 1.2             | 141,116,343           | 1.4                      | -3.4                     | 151,816,999           | 1.0                      | 7.6                      | 73,892,618            | 0.7             | 2.2                      |
| Fluorita                        | 79,398,700                       | 0.8             | 96,728,605                        | 0.8             | 91,735,772            | 0.9                      | -5.2                     | 117,263,814           | 0.8                      | 27.8                     | 50,919,963            | 0.5             | -7.2                     |
| Abrasivos Naturales             | 93,403,199                       | 0.9             | 83,461,150                        | 0.7             | 71,581,800            | 0.7                      | -14.2                    | 103,071,534           | 0.7                      | 44.0                     | 54,821,800            | 0.5             | 9.2                      |
| Rocas Dimensionables            | 155,916,896                      | 1.5             | 125,024,927                       | 1.0             | 86,201,074            | 0.8                      | -31.1                    | 89,174,593            | 0.6                      | 3.4                      | 45,292,203            | 0.4             | -1.3                     |
| Cemento                         | 109,739,439                      | 1.1             | 145,100,272                       | 1.2             | 79,337,197            | 0.8                      | -45.3                    | 78,550,957            | 0.5                      | -1.0                     | 45,210,966            | 0.4             | 17.9                     |
| Piedras Preciosas               | 82,126,248                       | 0.8             | 73,970,810                        | 0.6             | 40,491,703            | 0.4                      | -45.3                    | 58,036,402            | 0.4                      | 43.3                     | 35,610,893            | 0.3             | 73.4                     |
| Arena y Grava                   | 51,309,797                       | 0.5             | 67,361,387                        | 0.5             | 50,808,668            | 0.5                      | -24.6                    | 50,725,968            | 0.3                      | -0.2                     | 24,127,213            | 0.2             | 2.4                      |
| Carbón                          | 19,701,022                       | 0.2             | 38,481,774                        | 0.3             | 37,235,372            | 0.4                      | -3.2                     | 49,910,673            | 0.3                      | 34.0                     | 45,160,064            | 0.4             | 169.5                    |
| Grafito                         | 27,748,705                       | 0.3             | 34,077,806                        | 0.3             | 18,304,351            | 0.2                      | -46.3                    | 38,952,946            | 0.3                      | 112.8                    | 21,994,526            | 0.2             | 32.5                     |
| Azufre                          | 15,295,572                       | 0.1             | 106,015,766                       | 0.9             | 535,848               | 0.0                      | -99.5                    | 30,694,928            | 0.2                      | 5628.3                   | 24,019,656            | 0.2             | 127.5                    |
| Otros                           | 125,755,750                      | 1.2             | 136,213,384                       | 1.1             | 108,343,523           | 1.1                      | -20.5                    | 126,843,282           | 0.8                      | 17.1                     | 66,200,976            | 0.6             | 1.7                      |
| <b>TOTAL</b>                    | <b>10,422,538,880</b>            | <b>100.0</b>    | <b>12,404,166,380</b>             | <b>100.0</b>    | <b>10,144,238,030</b> | <b>100.0<sup>f</sup></b> | <b>-18.2</b>             | <b>15,473,834,026</b> | <b>100.0<sup>f</sup></b> | <b>52.5</b>              | <b>10,707,721,821</b> | <b>100.0</b>    | <b>51.8</b>              |

Fuente: Servicio Geológico Mexicano y DGPM con datos del Banco Nacional de Comercio Exterior, S.N.C. y del Banco de México.

1/ Cifras preliminares, sujetas a revisión.

2/ Variación con respecto al mismo periodo del año anterior

Continúa 15

# Importaciones Minero-Metalúrgicas 2007-2011 (ene-jun)

(ordenado conforme al valor de 2010, valor en dólares)

| PRODUCTO                       | 2007 1/                          |                 | 2008 1/                          |                 | 2009 1/              |                          |                          | 2010 1/              |                 |                          | 2011 (ene-jun) 1/    |                 |                          |
|--------------------------------|----------------------------------|-----------------|----------------------------------|-----------------|----------------------|--------------------------|--------------------------|----------------------|-----------------|--------------------------|----------------------|-----------------|--------------------------|
|                                | Valor                            | Participación % | Valor                            | Participación % | Valor                | Participación %          | Variación 2009/2008 % 2/ | Valor                | Participación % | Variación 2010/2009 % 2/ | Valor                | Participación % | Variación 2011/2010 % 2/ |
| <b>I- Minerales Metálicos</b>  | <b>6,241,580,036<sup>*</sup></b> | <b>80.7</b>     | <b>7,024,093,713<sup>*</sup></b> | <b>76.8</b>     | <b>3,608,844,863</b> | <b>71.6</b>              | <b>-48.6</b>             | <b>5,445,420,335</b> | <b>71.3</b>     | <b>50.9</b>              | <b>3,557,945,302</b> | <b>75.2</b>     | <b>44.4</b>              |
| <b>A- Metales Preciosos</b>    | <b>693,374,475<sup>*</sup></b>   | <b>9.0</b>      | <b>617,004,999<sup>*</sup></b>   | <b>6.7</b>      | <b>343,887,215</b>   | <b>6.8</b>               | <b>-44.3</b>             | <b>420,193,692</b>   | <b>5.5</b>      | <b>22.2</b>              | <b>258,726,166</b>   | <b>5.5</b>      | <b>37.5</b>              |
| Plata                          | 279,599,411                      | 3.6             | 193,125,573                      | 2.1             | 141,051,580          | 2.8                      | -27.0                    | 193,272,547          | 2.5             | 37.0                     | 134,493,605          | 2.8             | 73.2                     |
| Oro                            | 377,003,063                      | 4.9             | 335,632,693                      | 3.7             | 153,438,914          | 3.0                      | -54.3                    | 174,984,733          | 2.3             | 14.0                     | 77,599,276           | 1.6             | -6.1                     |
| Platino                        | 35,375,285                       | 0.5             | 86,446,979                       | 0.9             | 47,749,749           | 0.9                      | -44.8                    | 50,222,344           | 0.7             | 5.2                      | 45,545,034           | 1.0             | 67.6                     |
| Paladio                        | 1,396,716                        | 0.0             | 1,799,754                        | 0.0             | 1,646,972            | 0.0                      | -8.5                     | 1,714,068            | 0.0             | 4.1                      | 1,088,251            | 0.0             | --                       |
| <b>B- Metales Industriales</b> | <b>5,548,205,561<sup>*</sup></b> | <b>71.8</b>     | <b>6,407,088,714<sup>*</sup></b> | <b>70.1</b>     | <b>3,264,957,648</b> | <b>64.7</b>              | <b>-49.0</b>             | <b>5,025,226,643</b> | <b>65.8</b>     | <b>53.9</b>              | <b>3,299,219,136</b> | <b>69.7</b>     | <b>45.0</b>              |
| Aluminio                       | 1,855,957,450                    | 24.0            | 1,872,553,925                    | 20.5            | 1,107,867,946        | 22.0                     | -40.8                    | 1,914,514,654        | 25.1            | 72.8                     | 1,402,686,322        | 29.7            | 62.0                     |
| Cobre                          | 947,215,650                      | 12.3            | 1,374,638,308                    | 15.0            | 705,512,778          | 14.0                     | -48.7                    | 1,287,879,000        | 16.9            | 82.5                     | 723,444,696          | 15.3            | 27.8                     |
| Hierro                         | 1,298,122,326                    | 16.8            | 1,923,210,489                    | 21.0            | 758,057,372          | 15.0                     | -60.6                    | 942,582,046          | 12.3            | 24.3                     | 570,280,872          | 12.1            | 35.0                     |
| Níquel                         | 229,055,682                      | 3.0             | 163,552,486                      | 1.8             | 80,423,642           | 1.6                      | -50.8                    | 146,488,161          | 1.9             | 82.1                     | 96,707,405           | 2.0             | 47.2                     |
| Estaño                         | 86,566,407                       | 1.1             | 110,681,856                      | 1.2             | 61,549,056           | 1.2                      | -44.4                    | 120,044,430          | 1.6             | 95.0                     | 88,215,634           | 1.9             | 87.6                     |
| Plomo                          | 223,096,095                      | 2.9             | 225,604,468                      | 2.5             | 147,295,476          | 2.9                      | -34.7                    | 119,895,854          | 1.6             | -18.6                    | 106,856,142          | 2.3             | 52.7                     |
| Tantalio                       | 82,917,409                       | 1.1             | 78,594,728                       | 0.9             | 62,852,743           | 1.2                      | -20.0                    | 112,353,127          | 1.5             | 78.8                     | 73,576,448           | 1.6             | 83.2                     |
| Molibdeno                      | 257,013,121                      | 3.3             | 166,277,511                      | 1.8             | 47,188,671           | 0.9                      | -71.6                    | 90,076,544           | 1.2             | 90.9                     | 72,926,948           | 1.5             | 55.5                     |
| Manganeso                      | 45,455,837                       | 0.6             | 73,693,611                       | 0.8             | 29,061,121           | 0.6                      | -60.6                    | 60,593,104           | 0.8             | 108.5                    | 21,033,003           | 0.4             | -33.5                    |
| Titanio                        | 47,439,032                       | 0.6             | 310,312,97                       | 0.3             | 448,363,96           | 0.9                      | 44.5                     | 53,078,014           | 0.7             | 18.4                     | 33,466,340           | 0.7             | 102.9                    |
| Otros                          | 475,366,552                      | 6.1             | 387,250,035                      | 4.2             | 220,312,447          | 4.4                      | -43.1                    | 177,721,709          | 2.3             | -19.3                    | 110,025,326          | 2.3             | 7.1                      |
| <b>II- No Metálicos</b>        | <b>1,488,872,190<sup>*</sup></b> | <b>19.3</b>     | <b>2,117,775,991<sup>*</sup></b> | <b>23.2</b>     | <b>1,433,879,593</b> | <b>28.4</b>              | <b>-32.3</b>             | <b>2,190,056,598</b> | <b>28.7</b>     | <b>52.7</b>              | <b>1,172,125,465</b> | <b>24.8</b>     | <b>14.7</b>              |
| Carbón                         | 438,584,225                      | 5.7             | 904,034,296                      | 9.9             | 673,483,694          | 13.4                     | -25.5                    | 1,023,115,171        | 13.4            | 51.9                     | 537,066,617          | 11.4            | 13.3                     |
| Piedras Preciosas              | 225,374,671                      | 2.9             | 182,597,051                      | 2.0             | 129,556,638          | 2.6                      | -29.0                    | 171,464,319          | 2.2             | 32.3                     | 78,188,793           | 1.7             | 20.1                     |
| Coque                          | 68,575,907                       | 0.9             | 121,937,447                      | 1.3             | 72,420,727           | 1.4                      | -40.6                    | 143,194,647          | 1.9             | 97.7                     | 73,186,837           | 1.5             | -19.1                    |
| Fosforita                      | 64,722,855                       | 0.8             | 88,234,802                       | 1.0             | 18,129,279           | 0.4                      | -79.5                    | 125,385,775          | 1.6             | 591.6                    | 60,895,611           | 1.3             | 17.8                     |
| Abrasivos Naturales            | 113,700,708                      | 1.5             | 98,175,771                       | 1.1             | 72,657,905           | 1.4                      | -28.0                    | 110,646,542          | 1.4             | 52.3                     | 54,912,752           | 1.2             | 12.8                     |
| Rocas Dimensionables           | 90,095,166                       | 1.3             | 102,798,210                      | 1.1             | 77,549,642           | 1.5                      | -24.6                    | 82,750,324           | 1.1             | 6.7                      | 45,090,709           | 1.0             | 8.3                      |
| Grafito                        | 80,251,124                       | 1.0             | 82,023,605                       | 0.9             | 58,225,372           | 1.2                      | -29.0                    | 80,632,482           | 1.1             | 38.5                     | 49,002,933           | 1.0             | 32.6                     |
| Silice                         | 46,213,128                       | 0.6             | 50,796,731                       | 0.6             | 44,348,765           | 0.9                      | -12.7                    | 76,409,514           | 1.0             | 72.3                     | 45,695,848           | 1.0             | 34.2                     |
| Caolín                         | 65,481,580                       | 0.8             | 64,425,887                       | 0.7             | 48,046,055           | 1.0                      | -25.4                    | 65,527,824           | 0.9             | 36.4                     | 32,824,940           | 0.7             | 0.3                      |
| Otros                          | 286,872,826                      | 3.7             | 422,752,191                      | 4.6             | 239,461,516          | 4.7                      | -43.4                    | 310,930,000          | 4.1             | 29.8                     | 195,260,425          | 4.1             | 33.3                     |
| <b>TOTAL</b>                   | <b>7,730,452,226</b>             | <b>100.0</b>    | <b>9,141,869,704</b>             | <b>100.0</b>    | <b>5,042,724,456</b> | <b>100.0<sup>*</sup></b> | <b>-44.8</b>             | <b>7,635,476,933</b> | <b>100.0</b>    | <b>51.4</b>              | <b>4,730,070,767</b> | <b>100.0</b>    | <b>35.7</b>              |

Fuente: Servicio Geológico Mexicano y DGPM con datos del Banco Nacional de Comercio Exterior, S.N.C. y del Banco de México.

1/ Cifras preliminares, sujetas a revisión.

2/ Variación con respecto al mismo periodo del año anterior

**Balanza Comercial Minero-Metalúrgica 2007-2011 (ene-jun)**  
(valor en dólares)

|                           | 2007 1/               |               | 2008 1/               |               | 2009 1/               |               |                                | 2010 1/               |               |                                | 2011 (ene-jun) 1/     |               |                                |
|---------------------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|--------------------------------|-----------------------|---------------|--------------------------------|-----------------------|---------------|--------------------------------|
|                           | Valor                 | Participación | Valor                 | Participación | Valor                 | Participación | Variación<br>2009/2008<br>% 2/ | Valor                 | Participación | Variación<br>2010/2009<br>% 2/ | Valor                 | Participación | Variación<br>2011/2010<br>% 2/ |
|                           |                       | %             |                       | %             |                       | %             |                                |                       | %             |                                |                       | %             |                                |
| <b>EXPORTACIONES</b>      |                       |               |                       |               |                       |               |                                |                       |               |                                |                       |               |                                |
| I.- Metales Metálicos     | 9,548,899,582         | 91.6          | 11,351,693,802        | 91.5          | 9,418,546,379         | 92.8          | -17.0                          | 14,578,789,930        | 94.2          | 54.8                           | 10,220,471,163        | 95.4          | 53.9                           |
| A).- Metales Preciosos    | 3,112,118,051         | 29.9          | 4,610,525,889         | 37.2          | 5,564,892,796         | 54.9          | 20.7                           | 8,444,969,834         | 54.6          | 51.8                           | 6,032,198,964         | 56.3          | 60.4                           |
| B).- Metales Industriales | 6,436,781,531         | 61.8          | 6,741,167,913         | 54.3          | 3,853,653,583         | 38.0          | -42.8                          | 6,133,820,096         | 39.6          | 59.2                           | 4,188,272,199         | 39.1          | 45.4                           |
| II.- Metales No Metálicos | 873,639,298           | 8.4           | 1,052,472,578         | 8.5           | 725,691,651           | 7.2           | -31.0                          | 895,044,096           | 5.8           | 23.3                           | 487,250,658           | 4.6           | 17.5                           |
| <b>TOTAL</b>              | <b>10,422,538,880</b> | <b>100.0</b>  | <b>12,404,166,380</b> | <b>100.0</b>  | <b>10,144,238,030</b> | <b>100.0</b>  | <b>-18.2</b>                   | <b>15,473,834,026</b> | <b>100.0</b>  | <b>52.5</b>                    | <b>10,707,721,821</b> | <b>100.0</b>  | <b>51.8</b>                    |
| <b>IMPORTACIONES</b>      |                       |               |                       |               |                       |               |                                |                       |               |                                |                       |               |                                |
| I.- Metales Metálicos     | 6,241,580,036         | 80.7          | 7,024,093,713         | 76.8          | 3,608,844,863         | 71.6          | -48.6                          | 5,445,420,335         | 71.3          | 50.9                           | 3,557,945,302         | 75.2          | 44.4                           |
| A).- Metales Preciosos    | 693,374,475           | 9.0           | 617,004,999           | 6.7           | 343,887,215           | 6.8           | -44.3                          | 420,193,692           | 5.5           | 22.2                           | 258,726,166           | 5.5           | 37.5                           |
| B).- Metales Industriales | 5,548,205,561         | 71.8          | 6,407,088,714         | 70.1          | 3,264,957,648         | 64.7          | -49.0                          | 5,025,226,643         | 65.8          | 53.9                           | 3,299,219,136         | 69.7          | 45.0                           |
| II.- Metales No Metálicos | 1,488,872,190         | 19.3          | 2,117,775,991         | 23.2          | 1,433,879,593         | 28.4          | -32.3                          | 2,190,056,598         | 28.7          | 52.7                           | 1,172,125,465         | 24.8          | 14.7                           |
| <b>TOTAL</b>              | <b>7,730,452,226</b>  | <b>100.0</b>  | <b>9,141,869,704</b>  | <b>100.0</b>  | <b>5,042,724,456</b>  | <b>100.0</b>  | <b>-44.8</b>                   | <b>7,635,476,933</b>  | <b>100.0</b>  | <b>51.4</b>                    | <b>4,730,070,767</b>  | <b>100.0</b>  | <b>35.7</b>                    |
| <b>SALDO</b>              |                       |               |                       |               |                       |               |                                |                       |               |                                |                       |               |                                |
| I.- Metales Metálicos     | 3,307,319,546         |               | 4,327,600,089         |               | 5,809,701,516         |               | 34.2                           | 9,133,369,595         |               | 57.2                           | 6,662,525,861         |               | -27.1                          |
| A).- Metales Preciosos    | 2,418,743,576         |               | 3,993,520,890         |               | 5,221,005,581         |               | 30.7                           | 8,024,776,142         |               | 53.7                           | 5,773,472,798         |               | -28.1                          |
| B).- Metales Industriales | 888,575,970           |               | 334,079,199           |               | 588,695,935           |               | 76.2                           | 1,108,593,453         |               | 88.3                           | 889,053,063           |               | -19.8                          |
| II.- Metales No Metálicos | -615,232,892          |               | -1,065,303,413        |               | -708,187,942          |               | -33.5                          | -1,295,012,502        |               | 82.9                           | -684,874,807          |               | -47.1                          |
| <b>TOTAL</b>              | <b>2,692,086,654</b>  |               | <b>3,262,296,676</b>  |               | <b>5,101,513,574</b>  |               | <b>56.4</b>                    | <b>7,838,357,093</b>  |               | <b>53.6</b>                    | <b>5,977,651,054</b>  |               | <b>-23.7</b>                   |

Fuente: Servicio Geológico Mexicano y DGPM con datos del Banco Nacional de Comercio Exterior, S.N.C. y del Banco de México.

1/ Cifras preliminares, sujetas a revisión.

2/ Variación con respecto al mismo período del año anterior

## Inversión en el Sector Minerometalúrgico (millones de dólares)

| Año       | Total 1/ | Variación % | Nacional 2/    |             | Extranjera 3/ | Exploración Mundial 4/ |
|-----------|----------|-------------|----------------|-------------|---------------|------------------------|
|           |          |             | Total Nacional | Exploración |               |                        |
| 2000      | 897.2    |             | 698.2          | 111.7       | 199.0         | 2.6                    |
| 2001      | 402.0    | -55.2       | 380.0          | 60.8        | 22.0          | 2.2                    |
| 2002      | 505.9    | 25.8        | 257.9          | 41.3        | 248.0         | 1.9                    |
| 2003      | 427.7    | -15.5       | 347.7          | 55.6        | 80.0          | 2.4                    |
| 2004      | 731.7    | 71.1        | 585.4          | 93.7        | 146.3         | 3.8                    |
| 2005      | 1,167.8  | 59.6        | 911.8          | 120.3       | 256.0         | 5.1                    |
| 2006      | 1,923.0  | 64.7        | 1,266.0        | 175.0       | 657.0         | 7.5                    |
| 2007      | 2,156.0  | 12.1        | 1,530.0        | 309.0       | 626.0         | 11.4                   |
| 2008      | 3,656.0  | 69.6        | 2,727.0        | 175.0       | 929.0         | 14.4                   |
| 2009      | 2,858.0  | -21.8       | 2,418.0        | 221.0       | 440.0         | 7.7                    |
| 2010      | 3,316.0  | 16.0        | 2,802.0        | 413.0       | 513.7         | 11.2                   |
| 2011      | 4,731.0  | 42.7        | 4,172.0        | 598.0       | 558.7         | n.d.                   |
| 2012      | 4,484.0  | -5.2        | 3,954.2        | 566.8       | 529.5         | n.d.                   |
| 2007-2012 | 21,201.0 |             | 17,603.2       | 2,282.8     | 3,596.9       | n.d.                   |

1/ La suma de los parciales puede no coincidir con el total, debido al redondeo de las cifras.

2/ Se refiere únicamente a la inversión de las empresas afiliadas a la Cámara Minera de México.

3/ Inversión Extranjera Directa en el subsector minería y extracción, con base en el reporte de la Dirección General de Inversión Extranjera hasta 2006. A partir de 2007 se reporta la inversión identificada por la DGPM.

4/ Miles de millones de dólares con cifras del Metals Economic Group.

Variación con respecto al mismo período del año anterior

n.d. No disponible

Fuente: Secretaría de Economía.

**IMPORTACIONES DE BIENES INTERMEDIOS Y DE CAPITAL PARA LA INDUSTRIA MINEROMETALURGICA 2005-2010**

(dólares)

| CONCEPTO                    | 2005                 | 2006                 | 2007                 | 2008                 | 2009                 | Variación<br>2009/2008<br>(%) | 2010                 | Variación<br>2010/2009<br>(%) | Participación<br>en 2010<br>(%) |
|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|-------------------------------|---------------------------------|
| Equipo de laboratorio       | 193,198,545          | 123,732,003          | 157,988,366          | 201,157,752          | 132,281,353          | -34.2%                        | 141,847,465          | 7.2%                          | 2.8%                            |
| Equipo anticontaminante     | 245,361,342          | 286,505,292          | 266,731,441          | 322,000,027          | 246,187,077          | -23.5%                        | 303,975,622          | 23.5%                         | 5.9%                            |
| Materiales y accesorios     | 1,930,553,462        | 2,417,827,643        | 2,884,372,934        | 3,157,671,533        | 2,358,097,026        | -25.3%                        | 2,634,031,421        | 11.7%                         | 51.3%                           |
| Materias primas y reactivos | 72,689,248           | 89,226,077           | 105,624,304          | 121,118,597          | 122,246,977          | 0.9%                          | 160,332,923          | 31.2%                         | 3.1%                            |
| Maquinaria y equipo         | 536,415,754          | 813,192,649          | 1,545,977,480        | 2,516,172,504        | 611,112,154          | -75.7%                        | 612,855,136          | 0.3%                          | 11.9%                           |
| Partes y refacciones        | 1,018,428,771        | 1,199,385,121        | 1,358,490,111        | 1,612,994,004        | 1,283,821,861        | -20.4%                        | 1,280,261,973        | -0.3%                         | 24.9%                           |
| <b>TOTAL</b>                | <b>3,996,647,122</b> | <b>4,929,868,785</b> | <b>6,319,184,636</b> | <b>7,931,114,417</b> | <b>4,753,746,448</b> | <b>-40.1%</b>                 | <b>5,133,304,540</b> | <b>8.0%</b>                   | <b>100.0%</b>                   |

Fuente: Elaborado en base a datos del Sistema de Información Arancelaria Vía Internet, Secretaría de Economía.

**EMPLEO EN LA INDUSTRIA MINEROMETALURGICA 2011 a/  
(Personas)**

| Grupo #/              | Febrero    |      | Marzo      |      | Abril      |      | Mayo       |      | Junio      |      | Julio      |      | Agosto     |      | Septiembre |      |
|-----------------------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|
|                       |            | % b/ |            | % b/ |            | % b/ |            | % b/ |            | % b/ |            | % b/ |            | % b/ |            | % b/ |
| 11                    | 39,184     | 2.9  | 39,474     | 2.7  | 39,494     | 2.7  | 39,794     | 3.2  | 40,272     | 3.2  | 40,296     | 6.0  | 40,403     | 4.8  | 40,749     | 5.9  |
| 13                    | 49,032     | 15.4 | 50,544     | 17.4 | 51,088     | 16.8 | 52,157     | 17.5 | 53,555     | 20.0 | 54,680     | 20.1 | 55,757     | 21.5 | 56,892     | 22.4 |
| 14                    | 2,057      | 2.1  | 2,067      | 7.4  | 2,051      | -0.4 | 2,101      | 2.6  | 2,102      | 1.9  | 2,143      | 1.6  | 2,072      | -0.2 | 2,088      | 1.2  |
| 33                    | 124,591    | 2.6  | 125,806    | 3.0  | 127,610    | 2.7  | 128,401    | 2.7  | 128,376    | 2.3  | 128,372    | 2.2  | 128,267    | 1.9  | 128,682    | 1.8  |
| 34                    | 75,865     | 6.4  | 79,726     | 10.5 | 80,557     | 10.3 | 81,050     | 9.9  | 81,482     | 9.3  | 81,705     | 9.5  | 81,668     | 8.8  | 82,917     | 9.3  |
| <b>Sector Minero</b>  | 290,729    | 5.6  | 297,617    | 7.2  | 300,800    | 6.8  | 303,503    | 6.9  | 305,787    | 7.0  | 307,196    | 7.5  | 308,167    | 7.2  | 311,328    | 7.6  |
| <b>Total Nacional</b> | 14,732,001 | 4.9  | 14,842,350 | 4.7  | 14,885,064 | -4.2 | 14,938,710 | 4.3  | 14,994,119 | 4.2  | 15,037,448 | 4.1  | 15,104,131 | 4.1  | 15,215,211 | 4.2  |

\*/Grupos: 11 Extracción y beneficio de carbón mineral, grafito y minerales no metálicos; 13 Extracción y beneficio de minerales metálicos;

14 Explotación de sal; 33 Fabricación de Productos de minerales no metálicos; 34 Industrias metálicas básicas.

a/ Asegurados por división y grupo de actividad económica registrados en el Instituto Mexicano del Seguro Social.

b/ Variación con respecto al mismo mes del año anterior.

Nota: Excluye rama 12 correspondiente a extracción de petróleo crudo y gas natural.

FUENTE: Coordinación de Afiliación y Vigencia, IMSS, octubre de 2011.

Empleo en la Industria Minero-Metalúrgica por Entidad Federativa  
(Cifras al mes de junio de 2011, número de personas)

| Gpo.                              | Chis.      | Gro.         | Mor.         | Qro.         | D.F.          | Hgo.         | México        | Coah.         |
|-----------------------------------|------------|--------------|--------------|--------------|---------------|--------------|---------------|---------------|
| 11 Carbón, grafito y Min. No Met. | 272        | 362          | 226          | 697          | 428           | 1,748        | 1,728         | 12,979        |
| 13 Minerales metálicos            | 45         | 1,497        | -            | 339          | 259           | 1,430        | 1,238         | 5,640         |
| 14 Sal                            | -          | -            | -            | -            | -             | -            | -             | 24            |
| 33 Fab. de prod. de Min no met.   | 490        | 767          | 2,907        | 3,574        | 6,875         | 3,950        | 16,111        | 6,739         |
| 34 Ind. Metálicas básicas         | -          | 30           | 57           | 2,065        | 3,089         | 560          | 11,039        | 16,548        |
| <b>Total</b>                      | <b>806</b> | <b>2,656</b> | <b>3,190</b> | <b>6,674</b> | <b>10,651</b> | <b>7,688</b> | <b>30,116</b> | <b>41,931</b> |

Cifras estimadas.

Nota: La suma de las cifras parciales puede no coincidir con el total debido al redondeo.

Fuente: DGPM de acuerdo a Coordinación de Afiliación y Vigencia, IMSS, 2011.

Continúa...

**Empleo en la Industria Minero-Metalúrgica por Entidad Federativa**  
(Cifras al mes de junio de 2011, número de personas)

| <b>Gpo.</b>                       | <b>Chih.</b>  | <b>Dgo.</b>   | <b>N.L.</b>   | <b>S.L.P.</b> | <b>Tamps.</b> | <b>Zac.</b>  | <b>Ags.</b>  | <b>Col.</b>  |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|
| 11 Carbón, grafito y Min. No Met. | 397           | 3,451         | 2,991         | 1,421         | 697           | 246          | 499          | 271          |
| 13 Minerales metálicos            | 8770          | 4,067         | 533           | 3,440         | 198           | 7,893        | 22           | 2,666        |
| 14 Sal                            | -             | -             | -             | 11            | 91            | 1            | -            | 163          |
| 33 Fab. de prod.de Min no met.    | 4,777         | 2,048         | 25,300        | 4,249         | 3,998         | 657          | 2,305        | 437          |
| 34 Ind. Metálicas básicas         | 2,320         | 1,543         | 14,350        | 4,373         | 4,079         | 314          | 633          | 64           |
| <b>Total</b>                      | <b>16,263</b> | <b>11,109</b> | <b>43,174</b> | <b>13,494</b> | <b>9,063</b>  | <b>9,112</b> | <b>3,459</b> | <b>3,601</b> |

Cifras estimadas.

Nota: La suma de las cifras parciales puede no coincidir con el total debido al redondeo.

Continúa...

Fuente: DGPM de acuerdo a Coordinación de Afiliación y Vigencia, IMSS, 2011.

Continuación

Empleo en la Industria Minero-Metalúrgica por Entidad Federativa  
(Cifras al mes de junio de 2011, número de personas)

| <b>Gpo.</b>                       | <b>Gto.</b>   | <b>Jal.</b>   | <b>Mich.</b> | <b>Nay.</b> | <b>B.C.</b>  | <b>B.C.S.</b> | <b>Sin.</b>  | <b>Son.</b>   |
|-----------------------------------|---------------|---------------|--------------|-------------|--------------|---------------|--------------|---------------|
| 11 Carbón, grafito y Min. No Met. | 853           | 1,485         | 349          | 250         | 448          | 698           | 828          | 1,027         |
| 13 Minerales metálicos            | 2,149         | 1,071         | 834          | 243         | 53           | 26            | 684          | 9,804         |
| 14 Sal                            | -             | 7             | -            | -           | 18           | 1,058         | 17           | 210           |
| 33 Fab. de prod. de Min no met.   | 4,777         | 7,703         | 1,493        | 413         | 6,383        | 1,160         | 1,458        | 2,266         |
| 34 Ind. Metálicas básicas         | 3,150         | 3,942         | 2,299        | 1           | 2,863        | -             | 30           | 378           |
| <b>Total</b>                      | <b>10,928</b> | <b>14,208</b> | <b>4,976</b> | <b>907</b>  | <b>9,764</b> | <b>2,941</b>  | <b>3,016</b> | <b>13,685</b> |

Cifras estimadas.

Nota: La suma de las cifras parciales puede no coincidir con el total debido al redondeo.

Fuente: DGPM de acuerdo a Coordinación de Afiliación y Vigencia, IMSS, 2011.

Continúa...

**Empleo en la Industria Minero-Metalúrgica por Entidad Federativa**  
(Cifras al mes de junio de 2011, número de personas)

| <b>Gpo.</b>                       | <b>Oax.</b>  | <b>Pue.</b>  | <b>Tab.</b>  | <b>Tlax.</b> | <b>Ver.</b>  | <b>Camp.</b> | <b>Q.R.</b>  | <b>Yuc.</b>  | <b><u>TOTAL</u></b> |
|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|
| 11 Carbón, grafito y Min. No Met. | 348          | 1,492        | 332          | 61           | 1,389        | 120          | 844          | 1,334        | <b>40,272</b>       |
| 13 Minerales metálicos            | 208          | 211          | 68           | 169          | -            | -            | -            | -            | <b>53,555</b>       |
| 14 Sal                            | 32           | -            | -            | -            | -            | -            | -            | 469          | <b>2,102</b>        |
| 33 Fab. de prod. de Min no met.   | 743          | 3,217        | 637          | 4,680        | 3,323        | 243          | 1,419        | 3,276        | <b>128,376</b>      |
| 34 Ind. Metálicas básicas         | -            | 1,347        | 16           | 890          | 5,050        | 15           | 37           | 403          | <b>81,482</b>       |
| <b>Total</b>                      | <b>1,332</b> | <b>6,268</b> | <b>1,053</b> | <b>5,800</b> | <b>9,762</b> | <b>378</b>   | <b>2,300</b> | <b>5,482</b> | <b>305,787</b>      |

Cifras estimadas.

Nota: La suma de las cifras parciales puede no coincidir con el total debido al redondeo.

Fuente: DGPM de acuerdo a Coordinación de Afiliación y Vigencia, IMSS, 2011.

Concluye.

## SALARIO PROMEDIO DIARIO DE COTIZACIÓN POR SECTOR Y RAMA DE ACTIVIDAD 2004-2011

(Pesos)

| Sector/Rama                      | 2004         | 2005         | Var. %     | 2006         | Var. %     | 2007         | Var. %     | 2008         | Var. %     | 2009         | Var. %      | 2010          | Var. %     | 2011 *        | Var. % **  |
|----------------------------------|--------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|-------------|---------------|------------|---------------|------------|
| Nacional                         | 176.5        | 187.04       | 6.0        | 196.56       | 5.1        | 208.4        | 6.0        | 217.1        | 4.1        | 229.6        | 5.8         | 236.5         | 3.0        | 246.9         | 3.8        |
| <b>Minero-Metalurgia</b>         | <b>204.6</b> | <b>216.1</b> | <b>5.6</b> | <b>233.6</b> | <b>8.1</b> | <b>250.6</b> | <b>7.3</b> | <b>268.4</b> | <b>7.1</b> | <b>301.9</b> | <b>12.5</b> | <b>318.04</b> | <b>5.3</b> | <b>331.26</b> | <b>4.8</b> |
| 11. Carbón y Grafito             | 149.3        | 156.4        | 4.7        | 168.6        | 7.8        | 178.9        | 6.1        | 194.4        | 8.7        | 217.2        | 11.7        | 231.8         | 6.7        | 250.8         | 7.9        |
| 13. Minerales metálicos          | 219.9        | 234.3        | 6.5        | 260.3        | 11.1       | 274.2        | 5.3        | 300.8        | 9.7        | 358.8        | 19.3        | 383.6         | 6.9        | 392.7         | 7.1        |
| 14. Sal                          | 220.1        | 293.4        | 33.3       | 295.1        | 0.6        | 311.3        | 5.5        | 326.9        | 5.0        | 382.3        | 16.9        | 417.8         | 9.3        | 445.4         | 9.8        |
| 33. Producto de Min. No Met.     | 201.5        | 214.9        | 6.7        | 232.0        | 7.9        | 249.4        | 7.5        | 264.8        | 6.2        | 280.7        | 6.0         | 291.6         | 3.9        | 307.2         | 4.8        |
| 34. Industrias Metálicas Básicas | 233.3        | 240.5        | 3.0        | 257.4        | 7.1        | 279.7        | 8.6        | 297.9        | 6.5        | 349.3        | 17.2        | 362.2         | 3.7        | 369.5         | 0.4        |

Nota: Se refiere al salario base de cotización al IMS del mes de enero de cada año, que se integra con los pagos hechos en efectivo por cuota diaria y las gratificaciones, percepciones, alimentación, habitación, primas, comisiones, prestaciones en especie y cualquier otra cantidad o prestación que se entregue al trabajador por sus servicios.

La agrupación de ramas del sector minero-metalúrgico es de la DGPM, SE y el total del sector está ponderado de acuerdo al empleo por rama.

\* Se refiere al mes de febrero, dato más reciente disponible.

\*\* Variación con respecto al mismo mes del año anterior.

Fuente: Comisión Nacional de Salarios Mínimos, STPS.

**COTIZACIONES INTERNACIONALES DE METALES SELECCIONADOS**  
**2008-2011**

| PRODUCTO                                | 2008  | 2009  | 2010    | Var. %<br>2010/2009 | ENERO-SEPTIEMBRE |         |                     | OCTUBRE<br>DE 2011<br>(promedio 1 a 10) | PRONÓSTICOS |
|---|-------|-------|---------|---------------------|------------------|---------|---------------------|---|-------------|
|   |       |       |         |                     | 2010             | 2011    | Var. %<br>2011/2010 |   | 2011        |
| <b>ORO (London Final, Dls./oz.)</b>     | 871.7 | 972.8 | 1,224.7 | 25.9                | 1,177.1          | 1,529.6 | 30.0                | 1,643.1                                 | 1,602.0     |
| <b>PLATA (London Fix, US, Dls./oz.)</b> | 15.02 | 14.65 | 20.16   | 37.6                | 18.07            | 36.21   | 100.4               | 31.06                                   | 37.50       |
| <b>PLOMO (LME Settle, Cts Dls./lb.)</b> | 94.8  | 78.0  | 97.5    | 24.9                | 93.8             | 115.3   | 22.9                | 89.0                                    | 113.7       |
| <b>COBRE (LME Settle, Cts Dls./lb.)</b> | 315.5 | 233.6 | 341.8   | 46.3                | 325.1            | 420.3   | 29.3                | 318.3                                   | 415.7       |
| <b>ZINC (LME Settle, Cts Dls./lb.)</b>  | 85.0  | 75.1  | 98.0    | 30.6                | 95.7             | 104.0   | 8.7                 | 84.0                                    | 103.3       |

FUENTES DE CIFRAS HISTÓRICAS:

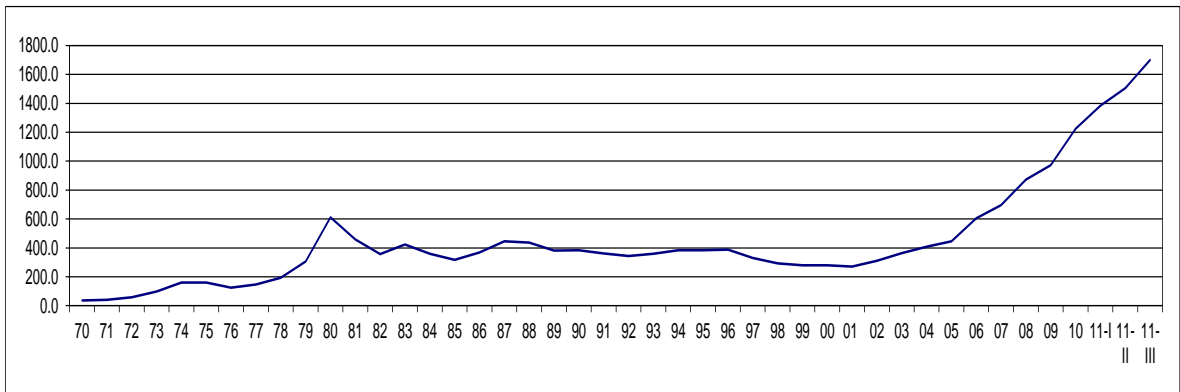
Oro, Plata, Plomo, Cobre y Zinc - Metals Week, enero de 2008, 2009, 2010; London Metal Exchange, octubre de 2011.

FUENTES DE PRONÓSTICOS: CPM Group

## Cotizaciones del Oro

Promedios Anuales 1970-2010    Promedios Trimestrales 2011

(Dls./Oz.)



### COTIZACION ANUAL

|      |         |
|------|---------|
| 2010 | 1,224.7 |
| 2009 | 972.8   |
| 2008 | 871.7   |
| 2007 | 696.7   |
| 2006 | 604.3   |
| 2005 | 444.9   |
| 2004 | 409.2   |

### COTIZACION MENSUAL

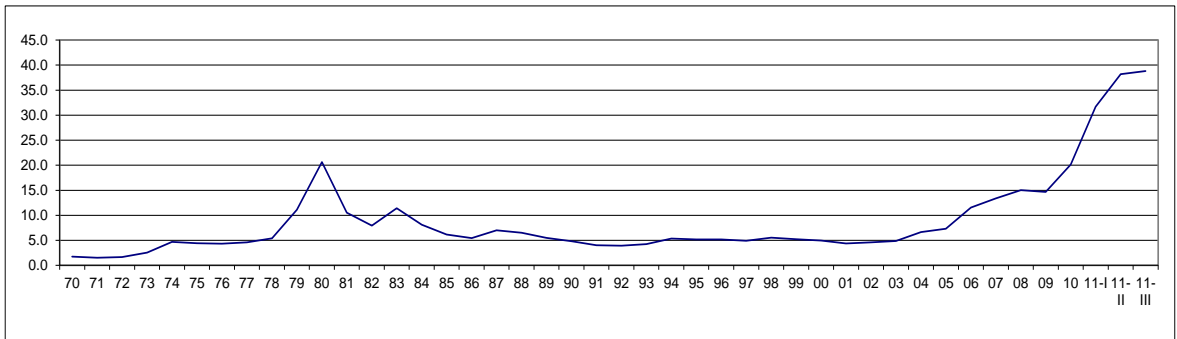
|        |         |        |         |
|--------|---------|--------|---------|
| SEP-11 | 1,771.9 | FEB-11 | 1,372.7 |
| AGO-11 | 1,755.8 | ENE-11 | 1,356.4 |
| JUL-11 | 1,572.8 | DIC-10 | 1,390.6 |
| JUN-11 | 1,528.7 | NOV-10 | 1,369.9 |
| MAY-11 | 1,510.4 | OCT-10 | 1,342.0 |
| ABR-11 | 1,473.8 | SEP-10 | 1,271.0 |
| MAR-11 | 1,424.0 |        |         |

FUENTE: Metals Week, enero de 2004, 2005, 2006, 2007, 2008, 2009, 2010; octubre de 2011.

## Cotizaciones de la Plata

Promedios Anuales 1970-2010    Promedios Trimestrales 2011

(Dls./Oz)



### COTIZACION ANUAL

|      |       |
|------|-------|
| 2010 | 20.16 |
| 2009 | 14.65 |
| 2008 | 15.02 |
| 2007 | 13.39 |
| 2006 | 11.57 |
| 2005 | 7.31  |
| 2004 | 6.65  |

### COTIZACION MENSUAL

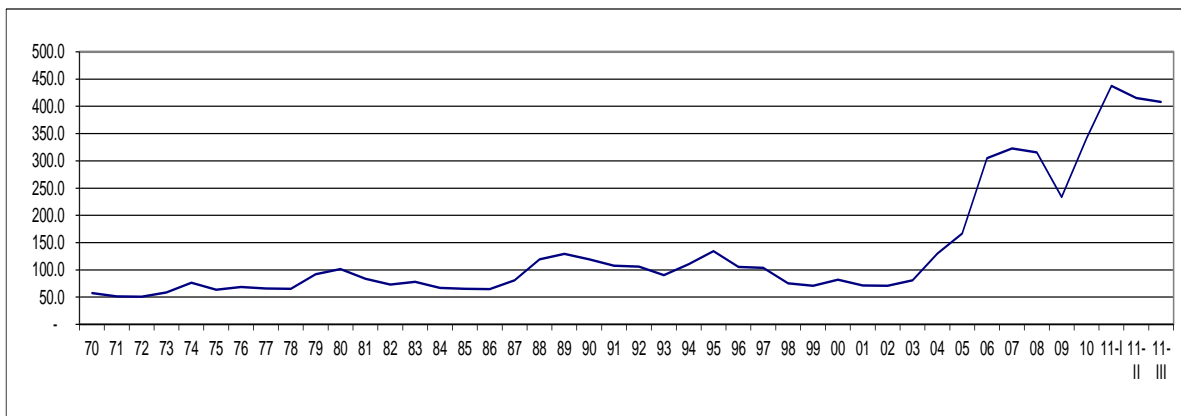
|        |       |        |       |
|--------|-------|--------|-------|
| SEP-11 | 38.15 | FEB-11 | 30.78 |
| AGO-11 | 40.30 | ENE-11 | 28.40 |
| JUL-11 | 37.92 | DIC-10 | 29.35 |
| JUN-11 | 35.80 | NOV-10 | 26.54 |
| MAY-11 | 36.75 | OCT-10 | 23.39 |
| ABR-11 | 41.97 | SEP-10 | 20.55 |
| MAR-11 | 35.81 |        |       |

28 FUENTE: Metals Week, enero de 2004, 2005, 2006, 2007, 2008, 2009, 2010; octubre de 2011.

# Cotizaciones del Cobre

Promedios Anuales 1970-2010 Promedios Trimestrales 2011

(Ctvs. USD/lb.)



## COTIZACION ANUAL

|      |       |
|------|-------|
| 2010 | 341.8 |
| 2009 | 233.6 |
| 2008 | 315.5 |
| 2007 | 322.9 |
| 2006 | 304.9 |
| 2005 | 166.9 |
| 2004 | 130.0 |

## COTIZACION MENSUAL

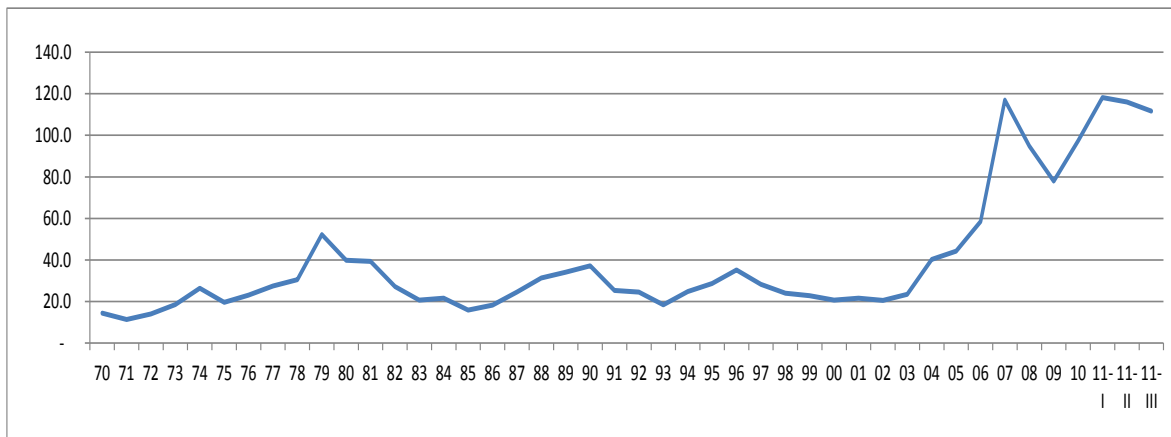
|        |       |        |       |
|--------|-------|--------|-------|
| SEP-11 | 377.2 | FEB-11 | 447.6 |
| AGO-11 | 410.1 | ENE-11 | 433.4 |
| JUL-11 | 436.3 | DIC-10 | 414.9 |
| JUN-11 | 410.3 | NOV-10 | 384.2 |
| MAY-11 | 404.9 | OCT-10 | 376.1 |
| ABR-11 | 430.2 | SEP-10 | 349.7 |
| MAR-11 | 432.3 |        |       |

FUENTE: Metals Week, enero de 2004, 2005, 2006, 2007, 2008, 2009, 2010; octubre de 2011.

# Cotizaciones del Plomo

Promedios Anuales 1970-2010 Promedios Trimestrales 2011

(USD/ton)



## COTIZACION ANUAL

|      |       |
|------|-------|
| 2010 | 97.5  |
| 2009 | 78.0  |
| 2008 | 94.8  |
| 2007 | 117.0 |
| 2006 | 58.5  |
| 2005 | 44.3  |
| 2004 | 40.2  |

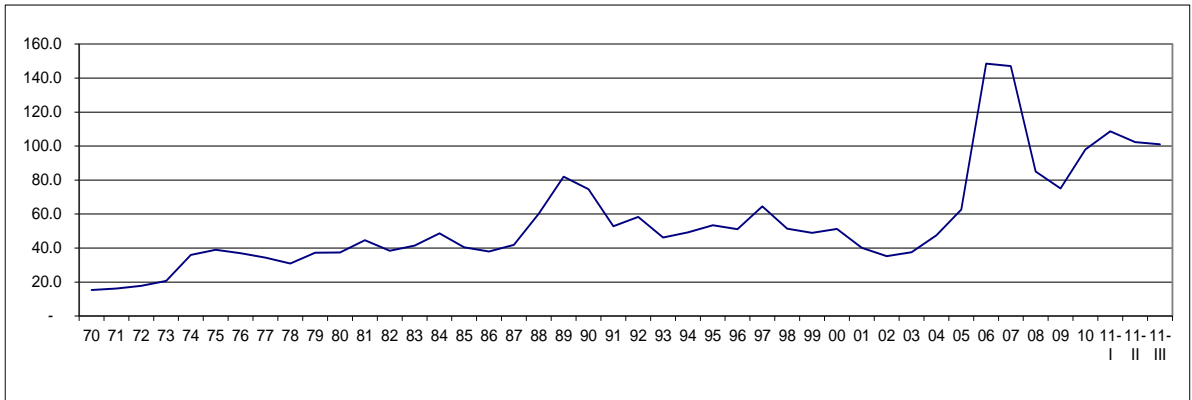
## COTIZACION MENSUAL

|        |       |        |       |
|--------|-------|--------|-------|
| SEP-11 | 104.3 | FEB-11 | 117.3 |
| AGO-11 | 109.1 | ENE-11 | 118.0 |
| JUL-11 | 121.7 | DIC-10 | 109.4 |
| JUN-11 | 114.0 | NOV-10 | 107.8 |
| MAY-11 | 109.8 | OCT-10 | 107.9 |
| ABR-11 | 124.3 | SEP-10 | 99.1  |
| MAR-11 | 119.0 |        |       |

30 FUENTE: Metals Week, enero de 2004, 2005, 2006, 2007, 2008, 2009, 2010; octubre de 2011.

# Cotizaciones del Zinc

Promedios Anuales 1970-2010      Promedios Trimestrales 2011  
(Ctvs. USD/lb.)



## COTIZACION ANUAL

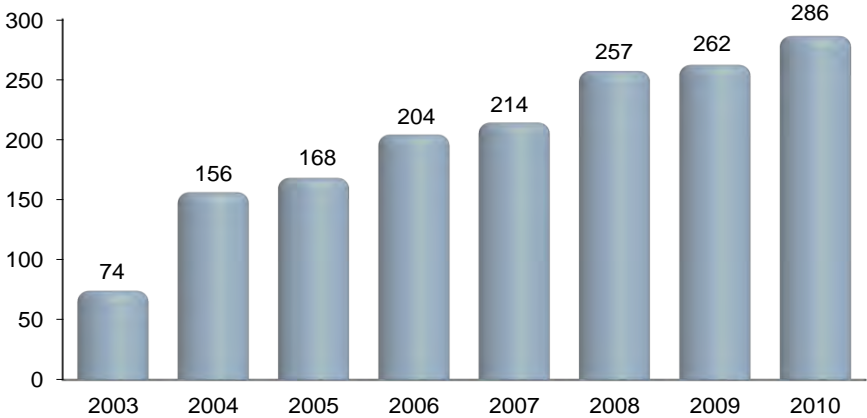
|      |       |
|------|-------|
| 2010 | 98.0  |
| 2009 | 75.1  |
| 2008 | 85.0  |
| 2007 | 147.1 |
| 2006 | 148.6 |
| 2005 | 62.7  |
| 2004 | 47.5  |

## COTIZACION MENSUAL

|        |       |        |       |
|--------|-------|--------|-------|
| SEP-11 | 94.2  | FEB-11 | 111.8 |
| AGO-11 | 100.3 | ENE-11 | 107.6 |
| JUL-11 | 108.4 | DIC-10 | 103.5 |
| JUN-11 | 101.2 | NOV-10 | 104.0 |
| MAY-11 | 98.0  | OCT-10 | 107.6 |
| ABR-11 | 107.6 | SEP-10 | 97.6  |
| MAR-11 | 106.6 |        |       |

FUENTE: Metals Week, enero de 2004, 2005, 2006, 2007, 2008, 2009, 2010; octubre de 2011.

# Número de Compañías Mineras con participación extranjera



Fuente: DGPM, SE.

2008

| MINA |   | EMPRESA   | MUNICIPIO Y ESTADO                              | INVERSIÓN TOTAL (Mdd) | EMPLEOS DIRECTOS | EMPLEOS INDIRECTOS | DERRAMA ECONÓMICA MENSUAL (mdd) | PRODUCCIÓN ANUAL ESTIMADA  |
|------|---|---|---|-----------------------|------------------|--------------------|---------------------------------|--|
| 1    | <b>NUUESTRA SEÑORA</b>                        | SCORPIO MINING CORPORATION MINERA COSALÁ, SA DE CV                    | Cosalá, SINALOA                                 | 52                    | 280              | 1000               | 10.3                            | 1,245 OZ Au, 73.65 OZ Ag, 5,625 TON DE ZINC, 1,338 TON DE Pb                       |
| 2    | <b>FILOS-BERMEJAL</b>                         | GOLDCORP INC DESARROLLOS MINEROS SAN LUIS, SA DE CV (GOLDCORP MÉXICO) | Eduardo Neri, (antes ZUMPANGO DEL RÍO) GUERRERO | 270                   | 400              | 1500               | 59.5                            | 300,000 ONZAS DE ORO   |
| 3    | <b>MINA EL VOLCÁN (CEDROS)</b>                | ARCELORMITTAL STEEL ARCELORMITTAL MÉXICO                              | Tesopaco, SONORA                                | 157                   | 200              | 650                |                                 | MINERAL DE HIERRO  |
| 4    | <b>CONCENTRADORA II (planta de beneficio)</b> | ARCELORMITTAL STEEL ARCELORMITTAL MÉXICO                              | Fundición, SONORA                               |                       | 110              | 350                |                                 | 2,000 000 TON PRE-CONCENTRADO DE MINERAL DE HIERRO                                 |
| 5    | <b>CAMPO MORADO</b>                           | FARALLON MINING LTD FARALLON MINERA MEXICANA, SA DE CV                | Arcelia, GUERRERO                               | 114                   | 250              | 1200               | 37.0                            | 54,430 TON ZINC, 6,804TON CU, 2,720 TON PLOMO, 9,000 ONZAS DE ORO, 28.35 TON PLATA |
| 6    | <b>MULATOS</b>                                | ALAMOS GOLD INC MINAS DE ORO NACIONAL, SA DE CV                       | Sahuaripa, SONORA                               | 100                   | 372              |                    |                                 | 100,000 ONZAS DE ORO   |
| 7    | <b>EL CORONEL</b>                             | MINERA REAL DE ÁNGELES SA DE CV EMPRESAS FRISCO                       | Ojo Caliente, ZACATECAS                         | 60                    | 650              | 1200               | 40.0                            | ORO  |
|      |   |   | <b>Subtotal</b>                                 | <b>753</b>            |                  |                    |                                 |  |

2009

| MINA            |   | EMPRESA  | MUNICIPIO Y ESTADO   | INVERSIÓN TOTAL (Mdd) | EMPLEOS DIRECTOS | EMPLEOS INDIRECTOS | DERRAMA ECONÓMICA MENSUAL (mdd) | PRODUCCIÓN ANUAL ESTIMADA   |
|-----------------|---|--|--|-----------------------|------------------|--------------------|---------------------------------|---|
| 8               | <b>DOLORES</b>  | MINEFINDERS CORPORATION LTD. COMPAÑÍA MINERA DOLORES, SA DE CV | Madera, CHIHUAHUA  | 300                   | 350              | 600                | 38.0                            | 148,500 OZ ORO<br>245 TON PLATA   |
| 9               | <b>PINOS ALTOS</b>                                      | AGNICO-EAGLE MINES LIMITED<br>AGNICO EAGLE MÉXICO SA DE CV     | Ocampo, CHIHUAHUA  | 240                   | 500              | 1,500              | 32.8                            | 175,000 OZ ORO<br>140 TON PLATA   |
| 10              | <b>PALMAREJO</b>  | COEUR d'ALENE MINES PLANET GOLD, SA DE CV                      | Chinipas, CHIHUAHUA  | 300                   | 400              | 600                | 66.3                            | 97,100 OZ ORO<br>277 TON PLATA  |
| 11              | <b>SAN JUAN</b>   | ROFOMEX, S. A.   | La Paz, BAJA CALIFORNIA SUR  | 75                    | 250              |                    | 12.0                            | ROCA FOSFÓRICA  |
| 12              | <b>LA ENCANTADA</b><br>(ampliación planta de beneficio) | FIRST MAJESTIC SILVER CORP.                                    | Ocampo, COAHUILA   | 30                    | 500              | 1,500              | 2.0                             | La ampliación: 1.8 millones de onzas de plata (56 ton) Total: 3.25 MILLONES DE ONZAS DE PLATA y 3,312,390 LIBRAS DE PLOMO, (101 Ton de plata y 1,500 Ton de plomo). |
| 13              | <b>EL CASTILLO</b>                                      | ARGONAUT GOLD INC MINERA REAL DEL ORO, SA DE CV                | San Juan del Río, DURANGO  | 20                    | 160              | 300                | 15.0                            | 29,000 ONZAS DE ORO   |
| 14              | <b>JÁLTIPAN</b>   | MEXICHEM, UNIÓN MINERA DEL SUR                                 | Jáltipan, VERACRUZ   | 45                    | 100              | 500                |                                 | 210,000 Ton de azufre.  |
| 15              | <b>EL TRIUNFO</b><br>(planta de beneficio)              | COMPAÑÍA MINERA DE "EL TRIUNFO", SA DE CV                      | Ejidos San Antonio, El Triunfo y El Rosano, del municipio de La Paz, BAJA CALIFORNIA SUR | 23                    | 100              |                    | 6.0                             | ORO   |
| <b>Subtotal</b> |   |  |  | <b>1,033</b>          |                  |                    |                                 |   |

**2010**

| PROYECTO |                        | EMPRESA  | MUNICIPIO Y ESTADO  | INVERSIÓN TOTAL (Mdd) | EMPLEOS DIRECTOS | EMPLEOS INDIRECTOS | DERRAMA ECONÓMICA MENSUAL (mdp) | PRODUCCIÓN ANUAL ESTIMADA  |
|----------|------------------------|--|---|-----------------------|------------------|--------------------|---------------------------------|--|
| 16       | <b>PEÑASQUITO</b>      | GOLDCORP INC<br>MINERA PEÑASQUITO,<br>SA DE CV   | Mazapil, ZACATECAS  | 1,700                 | 500              | 1,500              | 100.0                           | 400,000 OZ ORO<br>964 TON PLATA<br>97,000 TON PLOMO<br>189,000 TON ZINC              |
| 17       | <b>SOLEDAD-DIPOLOS</b> | FRESNILLO PLC.<br>NEW MONT MINING<br>CORPORATION<br>MINERA PENMONT, SA<br>DE CV                | SONORA  | 85                    | 286              |                    |                                 | 100,000 OZ ORO   |
| 18       | <b>EL ÁGUILA</b>       | GOLD RESOURCE<br>CORPORATION /<br>HOCHSCHILD MINING<br>PLC<br>MINERA GOLDEN<br>TRUMP, SA DE CV | San Pedro Quitani<br>y<br>San Pedro<br>Totolapam,<br>OAXACA | 50                    | 200              | 400                | 16.2                            | 24,800 ONZAS ORO<br>56 TON PLATA<br>6,300 TON ZN<br>2,300 TON PLOMO<br>560 TON COBRE |
| 19       | <b>SANTA ELENA</b>     | SILVER CREST MINES LTD.  | Banamichi,<br>SONORA  | 45                    | 150              |                    | 12.0                            | 35,000 ONZAS DE<br>ORO<br>18.7 TON PLATA   |
| 20       | <b>LA ENCANTADA</b>    | FIRST MAJESTIC   | COAHUILA  | 20                    |                  |                    |                                 | PLATA, ZINC, PLOMO   |
| 21       | <b>SAN JUAN</b>        | ROFOMEX  | BAJA CALIFORNIA<br>SUR                                      | 75                    |                  |                    |                                 | FÓSFORO  |
| 22       | <b>JALTIPAN</b>        | MEXICHEM   | VERACRUZ  | 240                   |                  |                    |                                 | AZUFRE   |
| 23       | <b>PALMAREJO</b>       | COEUR D'ALEN   | CHIHUAHUA   | 300                   |                  |                    |                                 | ORO, PLATA   |
| 24       | <b>SAN FRANCISCO</b>   | TIMMINS GOLD   | SONORA  | 70                    |                  |                    |                                 | ORO  |
|          |                        |  | <b>Subtotal</b>   | <b>2,585</b>          |                  |                    |                                 |  |
|          |                        |  | <b>Gran total</b>   | <b>4,371</b>          |                  |                    |                                 |  |

## EXPLORACIÓN-PROYECTOS AVANZADOS

| PROYECTO      | ESTADO          | TIPO          | SUBSTANCIA | COMPAÑÍA                            | INVERSIÓN<br>USD\$(Millones) |
|---------------|-----------------|---------------|------------|-------------------------------------|------------------------------|
| EL BOLEO      | BCS             | Subterránea   | Cu, Co, Zn | Baja <a href="#">Mining / Korex</a> | 1,169                        |
| LA VERDE      | Michoacán       | Cielo abierto | Cu         | <a href="#">Catalyst</a>            | 260                          |
| EL CRESTON    | Sonora          | Cielo abierto | Mo, Cu     | <a href="#">Creston Moly Corp.</a>  | 512                          |
| MINA EL PILAR | Sonora          | Cielo abierto | Cu         | <a href="#">Mercator Mineral</a>    | 209                          |
| MONTERDE      | Chihuahua       | Cielo abierto | Au, Ag     | <a href="#">Kimber Resources</a>    | 180                          |
| SAN ANTON     | Guanajuato      | Cielo abierto | Au, Ag, Cu | <a href="#">Cerro Resources NL</a>  | 265                          |
| IXHUATAN      | Chiapas         | Cielo abierto | Au         | <a href="#">Briqus Gold</a>         | 200                          |
| METATES       | Durango         | Subterránea   | Au, Ag     | <a href="#">Chesapeake Gold</a>     | 415                          |
| EL ARCO       | Baja California | Cielo abierto | Cu         | Grupo México                        | 1,550                        |
| BAHUERACHI    | Chihuahua       | Cielo abierto | Zn, Ag     | <a href="#">Jinchuan-Tyler</a>      | 619                          |
| TERRAZAS      | Chihuahua       | Cielo abierto | Zn, Cu     | Rio Tinto                           | 300                          |
| SAN NICOLAS   | Zacatecas       | Cielo abierto | Zn         | <a href="#">Teck / Goldcorp</a>     | 246                          |
| BUENA VISTA   | Sonora          | Cielo abierto | Zn, Cu     | Buenavista del Cobre                | 206                          |
| SIERRA MOJADA | Coahuila        | Subterránea   | Zn         | <a href="#">Metalline</a>           | 250                          |
| LAS MERCEDES  | Sonora          | Subterránea   | Zn         | <a href="#">Yamana Gold</a>         | 152                          |
| LOS VERDES    | Sonora          | Cielo Abierto | Cu, Mo     | <a href="#">Virgin Metals</a>       | 138                          |
| SAUCITO       | Zacatecas       | Subterránea   | Au, Ag     | Fresnillo PLC                       | 129                          |